HCD-GNZ777D/GNZ888D

SERVICE MANUAL

E Model

Ver. 1.2 2007. 10

(Photo: HCD-GNZ777D)

- HCD-GNZ777D/GNZ888D are the tuner, deck, DVD and amplifier section in MHC-GNZ777D/GNZ888D.

DVD Section	Model Name Using Similar Mechanism	HCD-GNZ77D/GNZ88D
	DVD Mechanism Type	CDM74HF-DVBU101//C
	Optical Pick-up Name	KHM-313CAB/C2NP
Tape Deck Section	Model Name Using Similar Machanism	HCD-GNZ77D/GNZ88D

SPECIFICATIONS

Amplifier section

HCD-GNZ888D

The following are measured at AC 120, 127, 220, 240 V, 50/60 Hz

Power output (rated)

Front speaker: 130 W + 130 W (4 Ω, 1 kHz, 1% THD)

RMS output power (reference)

Front speaker: 160 W + 160 W (per channel at 4 Ω, 1 kHz, 10% THD)

Center speaker: 50 W (per channel at 4 Ω, 1 kHz, 10% THD)

Surround speaker: 50 W + 50 W (per channel at 8 Ω, 1 kHz, 10% THD)

HCD-GNZ777D

The following are measured at AC 120, 127, 220, 240 V, 50/60 Hz

Power output (rated) 130 W + 130 W (4 Ω, 1 kHz, 1% THD)

RMS output power (reference)

Front speaker: 160 W + 160 W (per channel at 4 Ω, 1 kHz, 10% THD)

Inputs

VIDEO INPUT: VIDEO: 1 Vp-p, 75 ohms
AUDIO L/R: Voltage 250 mV, impedance 47 kilohms

TV/SAT AUDIO IN L/R: Voltage 250 mV/450 mV, impedance 47 kilohms

MIC 1 or 2: Sensitivity 1 mV, impedance 10 kilohms

Outputs

SUBWOOFER OUT: Voltage 250 mV, impedance 1 kilohm

VIDEO OUT: max. output level 1 Vp-p, unbalanced, Sync negative load impedance 75 ohms

COMPONENT VIDEO OUT:
Y: 1 Vp-p, 75 ohms
PB/CB: 0.7 Vp-p, 75 ohms
PR/CR: 0.7 Vp-p, 75 ohms

S-VIDEO OUT: Y: 1 Vp-p, unbalanced, Sync. negative
C: 0.286 Vp-p, load impedance 75 ohms

PHONES: accepts headphones of 8 ohms or more

DVD DIGITAL OUT (MHC-GNZ777D only): Wavelength: 660nm

– Continued on next page –

DVD DECK RECEIVER

9-887-690-03
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Sony Corporation
Personal Audio Division
Published by Sony Techno Create Corporation

SONY

Disc player section

System	Compact disc and digital audio and video system
Laser	Semiconductor laser (DVD: λ=650 nm, CD: λ=790 nm) Emission duration: continuous
Frequency response	DVD (PCM 48 kHz): 2 Hz – 22 kHz (±1 dB) CD: 2 Hz – 20 kHz (±0.5 dB)
Video color system format	Russian models: PAL Other models: NTSC and PAL

Tape deck section

Recording system	4-track 2-channel stereo
Frequency response	50 – 13,000 Hz (±3 dB), using Sony TYPE I tape

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz (50-kHz step)
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
Saudi Arabian and Russian models:	531 – 1,602 kHz (with the interval set at 9 kHz)
Other models:	531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,610 kHz (with the interval set at 10 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	
Saudi Arabian model:	120 – 127 V, 220 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Thai model:	220 V AC, 50/60 Hz
Russian and Indian models:	220 – 240 V AC, 50/60 Hz
Other models:	120 V, 220 – 240 V AC, 50/60 Hz Adjustable with voltage selector

Power consumption	
MHC-GNZ888D	120 W
MHC-GNZ777D	90 W

Dimensions (w/h/d) (Approx.)	280 × 323.5 × 373.5 mm

Mass (Approx.)	
HCD-GNZ888D	7.1 kg
HCD-GNZ777D	6.9 kg

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

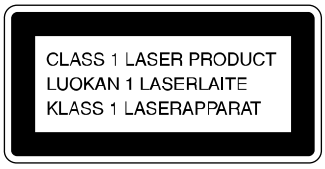
NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

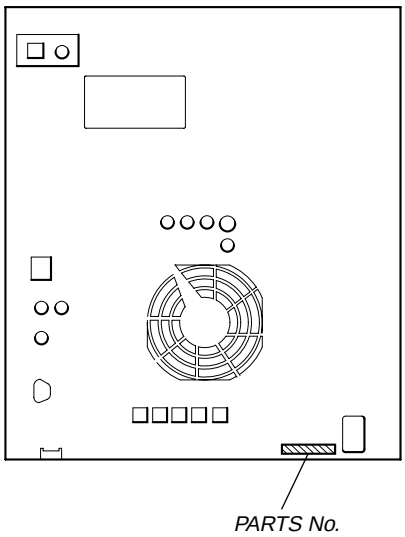
Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This appliance is claassified as a CLASS 1 LASER product. This label is located on the rear exterior.

MODEL IDENTIFICATION

– BACK PANEL –



MODEL	PARTS No.
GNZ888D: E3, E15	2-897-540-0☐
GNZ888D: EA	2-897-540-1☐
GNZ888D: SP	2-897-540-2☐
GNZ888D: E12	2-897-540-3☐
GNZ888D: TH	2-897-540-4☐
GNZ888D: PH	2-897-540-5☐
GNZ777D: E3, E15	2-897-541-0☐
GNZ777D: EA	2-897-541-1☐
GNZ777D: SP	2-897-541-2☐
GNZ777D: E12, E13	2-897-541-3☐
GNZ777D: TH	2-897-541-4☐
GNZ777D: PH	2-897-541-5☐

• Abbreviation
E3 : 240 V AC area in E model
E12 : 220-240 V AC area in E model
E13 : Russian model
E15 : Iran model
EA : Saudi arabia model
PH : Philippine model
SP : Singapore model
TH : Thai model

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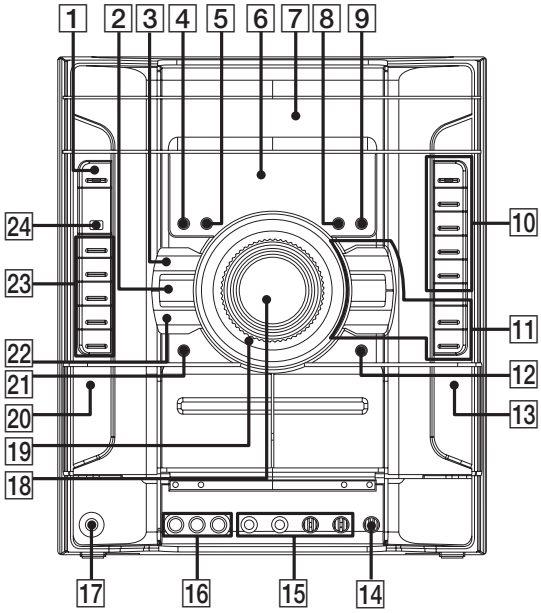
SECTION 1
GENERAL

This section is extracted from instruction manual.

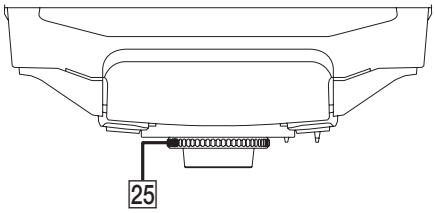
Guide to parts and controls

This manual mainly explains operations using the remote, but the same operations can also be performed using the buttons on the unit having the same or similar names.

Front panel



Top panel



Continued

1 I/⏻ STANDBY (pages 17, 18, 19, 22, 23, 54, 73, 74, 80, 81)
Press to turn the unit on or off.

2 GROOVE (page 58)
Press to reinforce the bass.

3 EQ BAND/MEMORY (page 58)
Press to select a frequency band when adjusting the equalizer.

4 DISPLAY (pages 20, 67)
Press to display disc information in the front panel display or to change the front panel display during Power Saving Mode.

5 ILLUMINATION (page 67)
Press to change the power illuminator.

6 Display (pages 12, 67, 82)

7 Disc tray (pages 12, 26, 76)

8 CD SYNC (page 56)
Press to select CD Synchro Recording.

9 REC PAUSE/START (page 56)
Press to start recording.

10 DISC 1 ~ 3 (page 27)
Press to select a disc.

DISC SKIP/EX-CHANGE (pages 18, 26, 27)
Press to exchange other discs during playback.

⏏ OPEN/CLOSE (pages 18, 26, 76)
Press to load or eject a disc.

11 TUNING +/– (pages 53, 54)
Press to tune in a radio station.

▶▶▮► /◄◄◄▮ (fast forward/rewind) (page 27)
Press to fast forward or rewind.

◄► (play) (pages 26, 55, 56, 74)
▮▮ (pause) (pages 26, 55)
■ (stop) (pages 26, 53, 55, 56, 80)
Press to start, pause or stop playback.

12 DIRECTION (pages 55, 56, 66)
Press to select the tape playback option.

13 ⏏ PUSH (Eject B) (page 55)
Press to insert or eject tape B.

Deck B (pages 55, 56, 66)

14 ECHO LEVEL (page 61, 62)
Turn to adjust the microphone echo effect.

15 MIC 1/2 (jack) (pages 57, 62, 74)
Connect the microphones.

MIC 1/2 LEVEL (pages 57, 61, 74)
Turn to adjust the microphone volume.

16 VIDEO INPUT (jacks) (page 71)
Connect an audio or video component.

17 PHONES (jack) (page 74)
Connect the headphones.

18 MASTER VOLUME (pages 26, 65, 67, 74)
Turn to adjust the volume.

19 Power illuminator (pages 67)

20 ⏏ PUSH (Eject A) (page 55)
Press to insert or eject tape A.

Deck A (page 55)

21 SOUND FIELD (page 59)
Press to select a sound field.

22 PRESET EQ (page 58)
Press to select a preset effect.

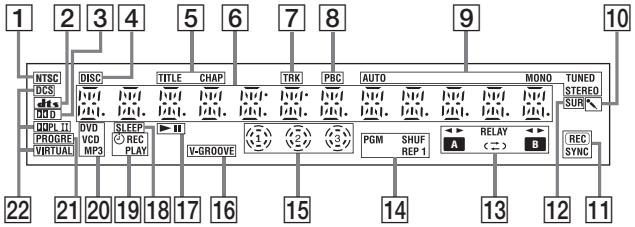
23 VIDEO (pages 67, 73)
TV/SAT (pages 67, 73, 75)
TAPE A/B (pages 55, 66, 67)
TUNER/BAND (pages 53, 67)
DVD (pages 18, 26, 56, 61, 67, 78)
Press to select a function.

24 Remote sensor (page 75)

25 I◄◄ OPERATION DIAL ►►I (pages 27, 53, 56, 58, 59)
Turn to select a setting.

Continued

DISPLAY



1 Lights up when the color system of the video output is NTSC (page 19).

2 Lights up when DTS source is played back (page 49).

3 Lights up when Dolby Digital source is played back (page 49).

4 Lights up when disc number is displayed.

5 Lights up when the elapsed playing time and the remaining playing time for the title or chapter is displayed (page 67).

6 Displays the current status and information (page 67).

7 Lights up when the track information is displayed.

8 Lights up when VIDEO CD with PBC functions is played back (page 29).

9 Indicators for the TUNER function (page 53).

10 Lights up when Karaoke Mode is turned on (page 61).

11 Lights up during recording (page 56).

12 Indicators for sound field (page 59).
(MHC-GNZ888D only)
"SUR" lights up when "LINK SUR" or "2CH SUR" is selected.

(MHC-GNZ777D only)
"SUR" lights up when "HP SUR" or "2CH SUR" is selected.

13 Indicators for the TAPE function (page 55).
"A" and "B" lights up when the system is turned on.
"◀" or "▶" lights up when there is a tape in the deck and indicates the tape playback direction. "RELAY", "⇄" and "↻" indicates the tape playback option.

14 Indicates the selected play mode (page 31).
"SHUF" lights up when Shuffle Play is activated. "PGM" lights up when Program Play is activated. "REP" lights up when Repeat Play is set to "ALL DISCS", "ONE DISC", "ALBUM" or "ON". "REP 1" lights up when Repeat Play is set to "TITLE", "CHAPTER", "TRACK" or "FILE".

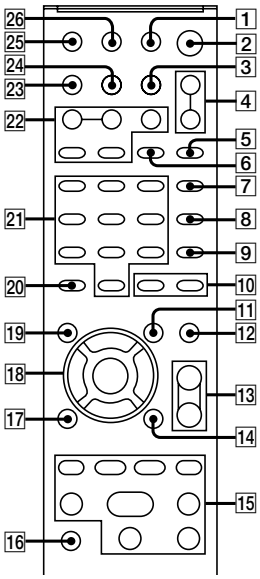
15 Indicators for the disc tray (page 26).
"◌" lights up when there is a disc on the disc tray. "◌", "1", "2" and "3" light up when the system is turned on.

16 "GROOVE" lights up when "GROOVE ON" is selected.
"V GROOVE" lights up when "V-GROOVE ON" is selected (page 58).

17 Indicates the disc playback condition.
"►" lights up when source is played back. "❚❚" lights up when the source is paused.

18 Lights up when the Sleep Timer is activated (page 65).
19 Lights up when the Play Timer or Timer Recording is set (page 65).
20 Indicators for the DVD function (page 26).
"DVD" lights up when DVD VIDEO, DVD-R/-RW in VR mode or DATA DVD is detected. "MP3" lights up when MP3 audio tracks are played back. "VCD" lights up when VIDEO CD or Super VCD is detected. "CD" lights up when AUDIO CD or DATA CD is detected.
21 Lights up when "P AUTO" or "P VIDEO" is selected (page 20).
22 Indicators for sound field (page 59).
(MHC-GNZ888D only)
"VIRTUAL" and "DCS" light up when "V.M.DIM." is selected. "DD PL" or "DD PL II" lights up when Pro Logic decoding or Pro Logic II Movie/Music decoding is performed.
(MHC-GNZ777D only)
"VIRTUAL" lights up when "VIRTUAL A", "VIRTUAL B" or "HP VIRTUAL" is selected.

Remote



1 THEATRE SYNC (page 25)
Press to operate the THEATRE SYNC function.

2 TV I/⏻ (on/standby) (page 21)
Press to turn the TV on or off.

I/⏻ (on/standby) (pages 17, 22, 74)
Press to turn the unit on or off.

3 DISC SKIP (page 27)
Press to skip a disc.

4 FUNCTION +/– (pages 26, 53, 55, 73)
Press to select a function.

5 PICTURE NAVI (pages 36, 38)
Press to search for a scene or a file.

Continued

6 REPEAT/FM MODE (pages 33, 54, 79)
Press to change the Repeat Play setting.
Press to select the FM monaural or stereo reception.

7 AUDIO (pages 28, 62, 69)
Press to select the audio format.

8 SUBTITLE/D.TUNING (pages 28, 54)
Press to turn off or change the language of the subtitle.
Press to enter direct tuning mode.

9 ANGLE (page 28)
Press to change the angle.

10 (pages 24, 27)
Press to select an album.

11 DVD/TUNER MENU (pages 34, 38, 53)
Press to display the menu of the DVD player.
Press to preset a radio station.

12 SOUND FIELD (page 59)
Press to select a sound field.

13 TV VOL +/–* (page 21)
Press to adjust the TV volume.

VOLUME +/–* (pages 26, 65, 74)
Press to adjust the volume.

14 DISPLAY (pages 31, 46, 63, 87)
Press to turn on or off or change the Control Menu display on the TV screen.

15 TV CH +/– (page 21)
Press to select a TV channel.

PRESET +/– (page 53)
Press to select a preset station.

⏮/⏭ (go backward/go forward) (pages 27, 37, 56)
Press to go backward or go forward.

◀II STEP II▶ (page 27)
Press to watch one frame at a time.

REPLAY ←•/ADVANCE •→ (page 27)
Press to replay the previous scene or fast forward the current scene.

TUNING +/– (pages 53, 54)
Press to tune in a radio station.

SLOW ◀/SLOW ▶ (page 27)
Press to watch frame by frame.

◀◀/▶▶ (rewind/fast forward (page 27)
Press to rewind or fast forward.

▷* (play) (pages 26, 55, 74)
II (pause) (pages 26, 55)
■ (stop) (pages 26, 53, 55)
Press to start, pause or stop playback.

16 TV (page 21)
Hold down TV and press the button you want to operate the TV.

17 RETURN (pages 30, 36, 38)
Press to return to the previous display.

18 ↑/↓/←/→ (pages 22, 31, 53, 63, 65)
Press to select the settings.

ENTER (pages 22, 31, 53, 58, 65)
Press to enter the selection.

19 DVD TOP MENU (page 34)
Press to display the DVD title.

20 -/-- (page 21)
Press to enter a double digit channel number for TV.

CLEAR (pages 23, 24, 31, 38)
Press to cancel the play mode or clear a mistake when you press the incorrect numeric button.

21 Numeric buttons* (pages 21, 27, 43, 53)
Press to tune or preset a radio station, enter a track or file number, etc.

22 KEY CONTROL ♭/♯ (page 64)
SCORE (page 64)
KARAOKE MODE (page 62)
KARAOKE PON (page 64)
Press to enjoy the karaoke function.

23 DISPLAY (pages 67)
Press to display disc information in the front panel display or to change the front panel display during Power Saving Mode.

24 TIME/TEXT (pages 67, 69)
Press to check the elapsed playing time, remaining time, etc.

25 TV INPUT (page 21)
Press to switch the TV's input source.

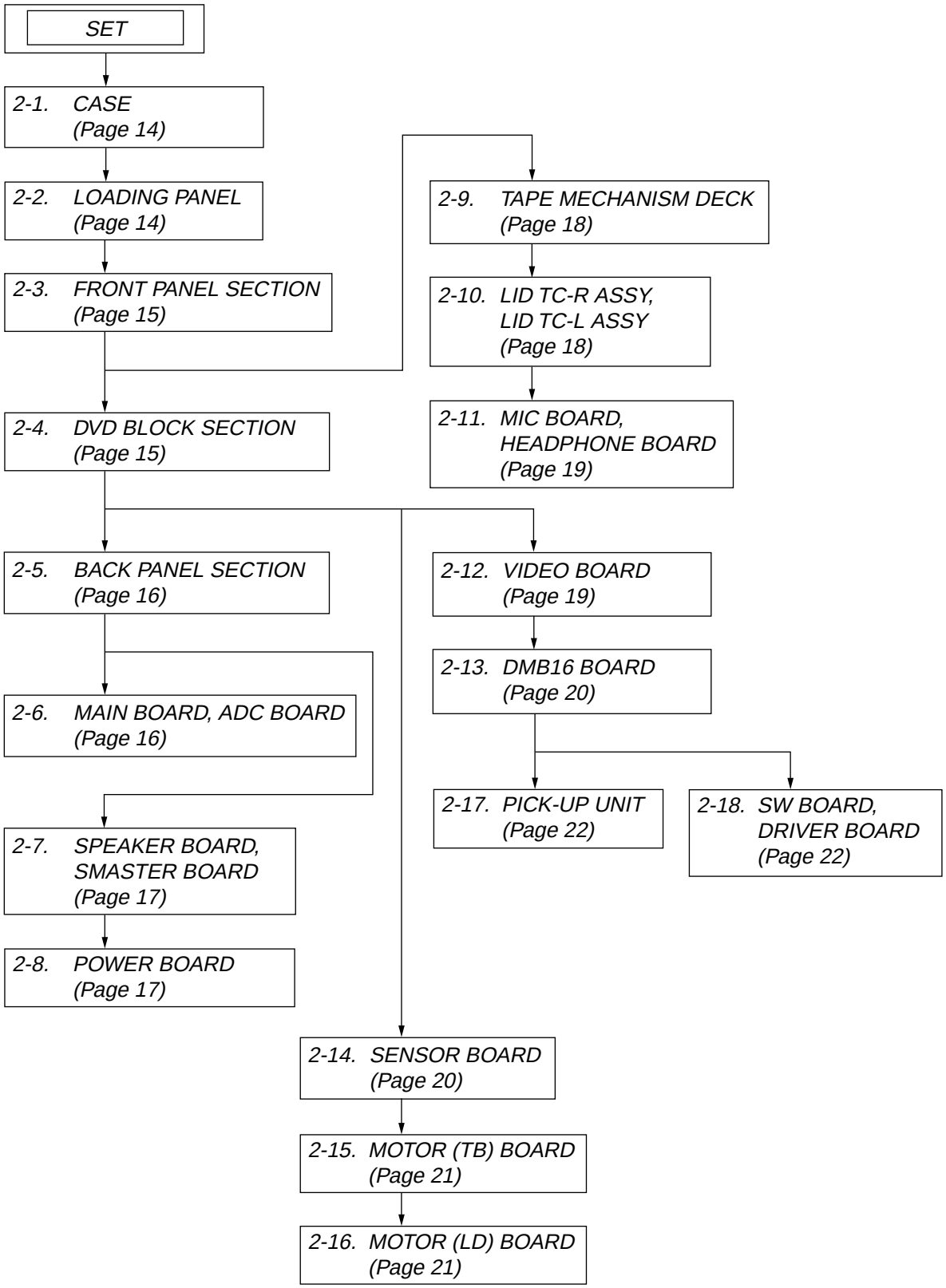
SLEEP (pages 24, 65)
Press to activate the sleep timer.

26 TIMER MENU (pages 22, 65)
Press to set the time and timer.

* The numeric button 5, TV VOL +, VOLUME + and ▷ buttons have a tactile dot. Use the tactile dot as a reference when operating the system.

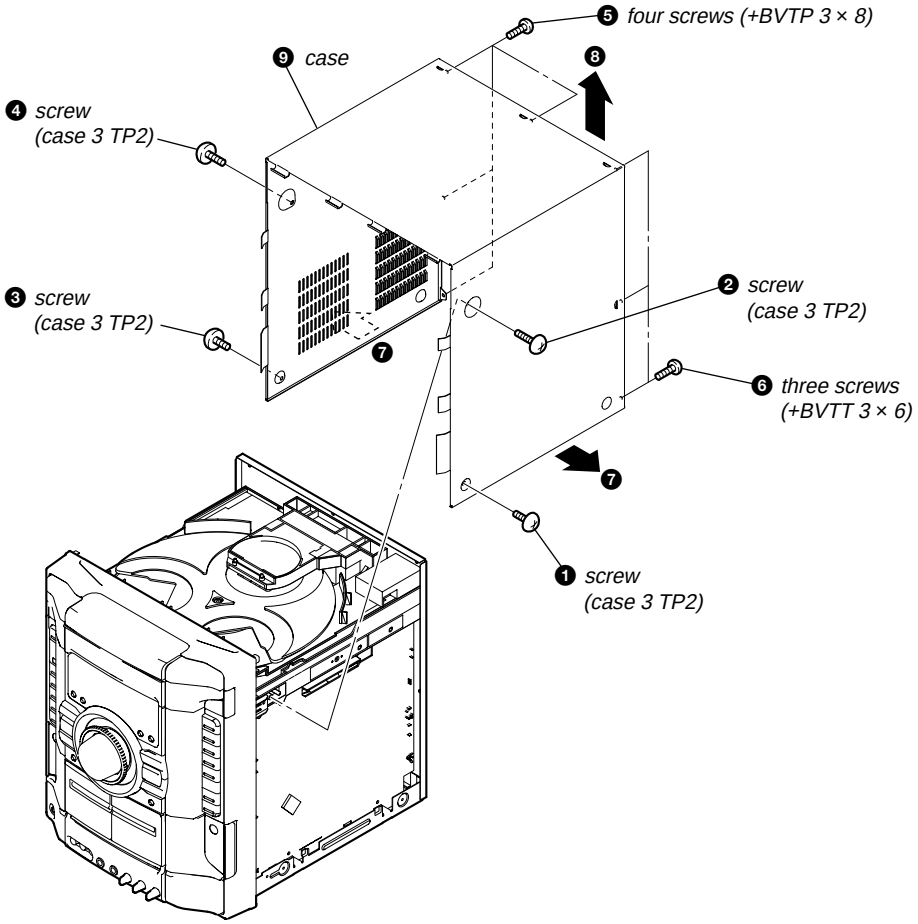
SECTION 2
DISASSEMBLY

Note : Disassemble the unit in the order as shown below.

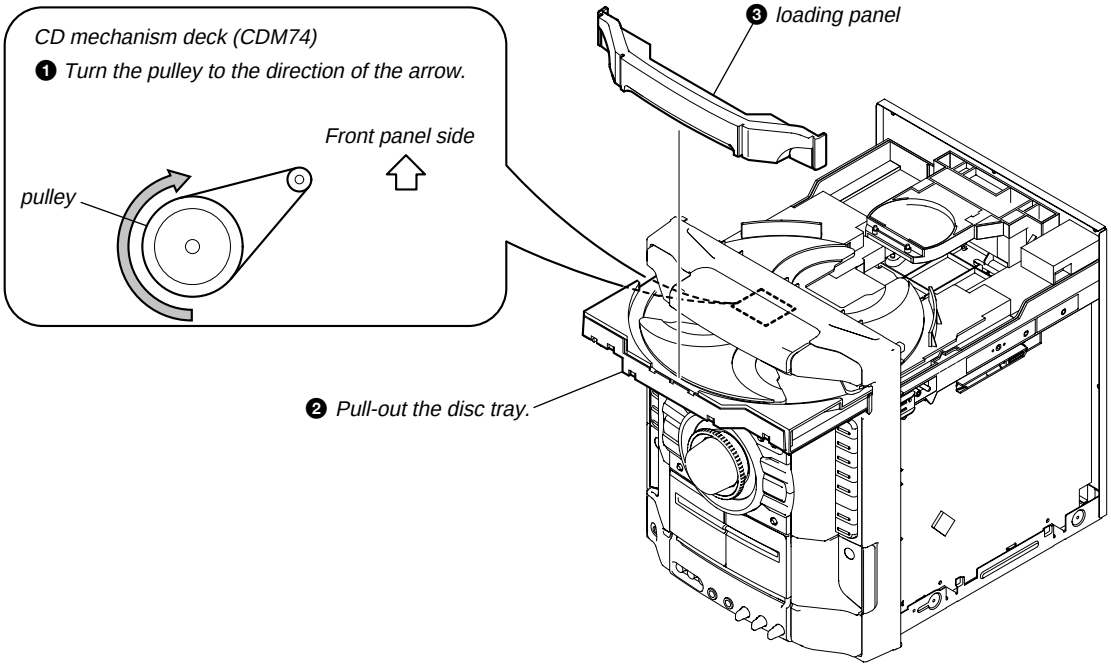

SET
2-1. CASE (Page 14)
2-2. LOADING PANEL (Page 14)
2-3. FRONT PANEL SECTION (Page 15)
2-4. DVD BLOCK SECTION (Page 15)
2-5. BACK PANEL SECTION (Page 16)
2-6. MAIN BOARD, ADC BOARD (Page 16)
2-7. SPEAKER BOARD, SMASTER BOARD (Page 17)
2-8. POWER BOARD (Page 17)
2-9. TAPE MECHANISM DECK (Page 18)
2-10. LID TC-R ASSY, LID TC-L ASSY (Page 18)
2-11. MIC BOARD, HEADPHONE BOARD (Page 19)
2-12. VIDEO BOARD (Page 19)
2-13. DMB16 BOARD (Page 20)
2-14. SENSOR BOARD (Page 20)
2-15. MOTOR (TB) BOARD (Page 21)
2-16. MOTOR (LD) BOARD (Page 21)
2-17. PICK-UP UNIT (Page 22)
2-18. SW BOARD, DRIVER BOARD (Page 22)

Note : Follow the disassembly procedure in the numerical order given.

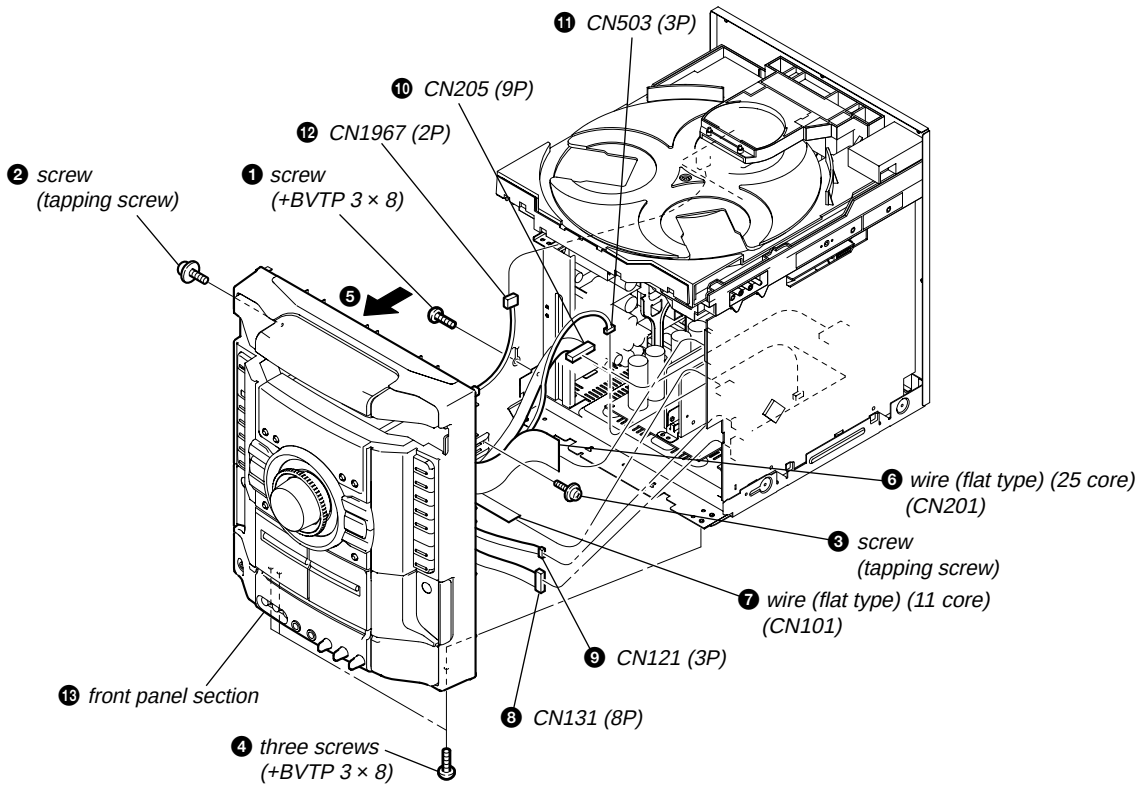
2-1. CASE



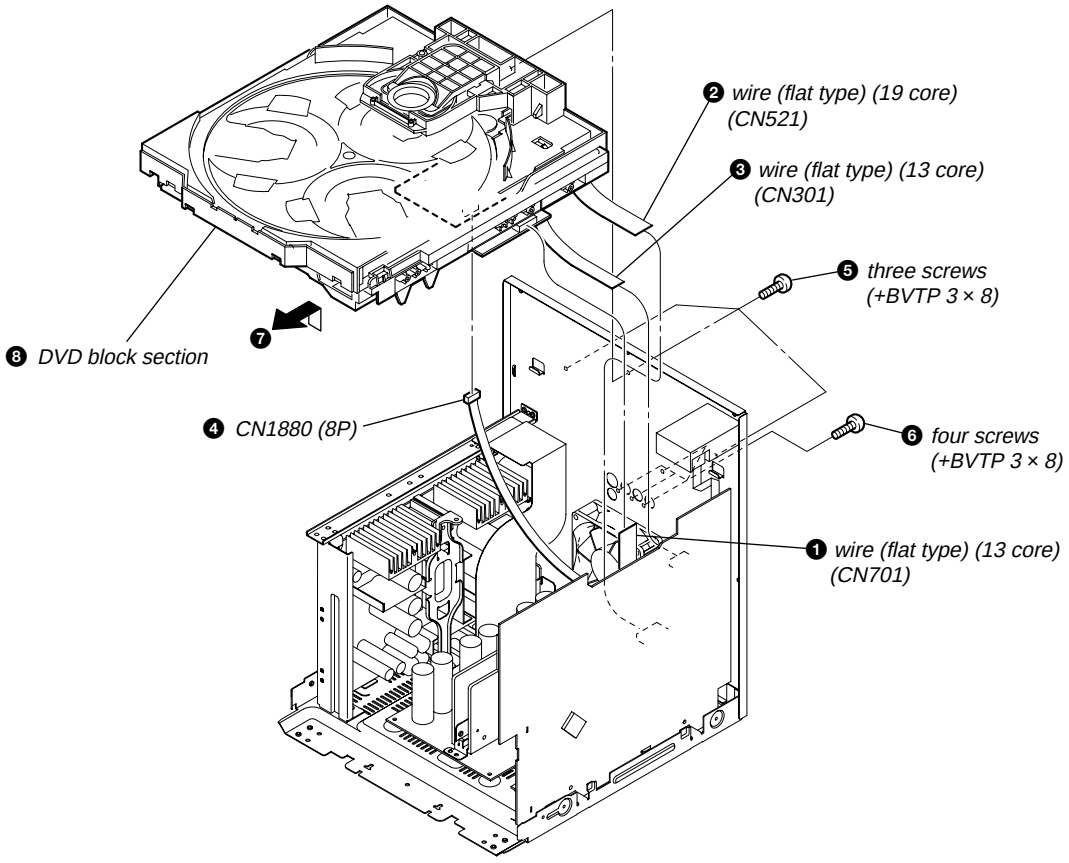
2-2. LOADING PANEL


CD mechanism deck (CDM74)
❶ Turn the pulley to the direction of the arrow.
Front panel side
pulley
❸ loading panel
❷ Pull-out the disc tray.

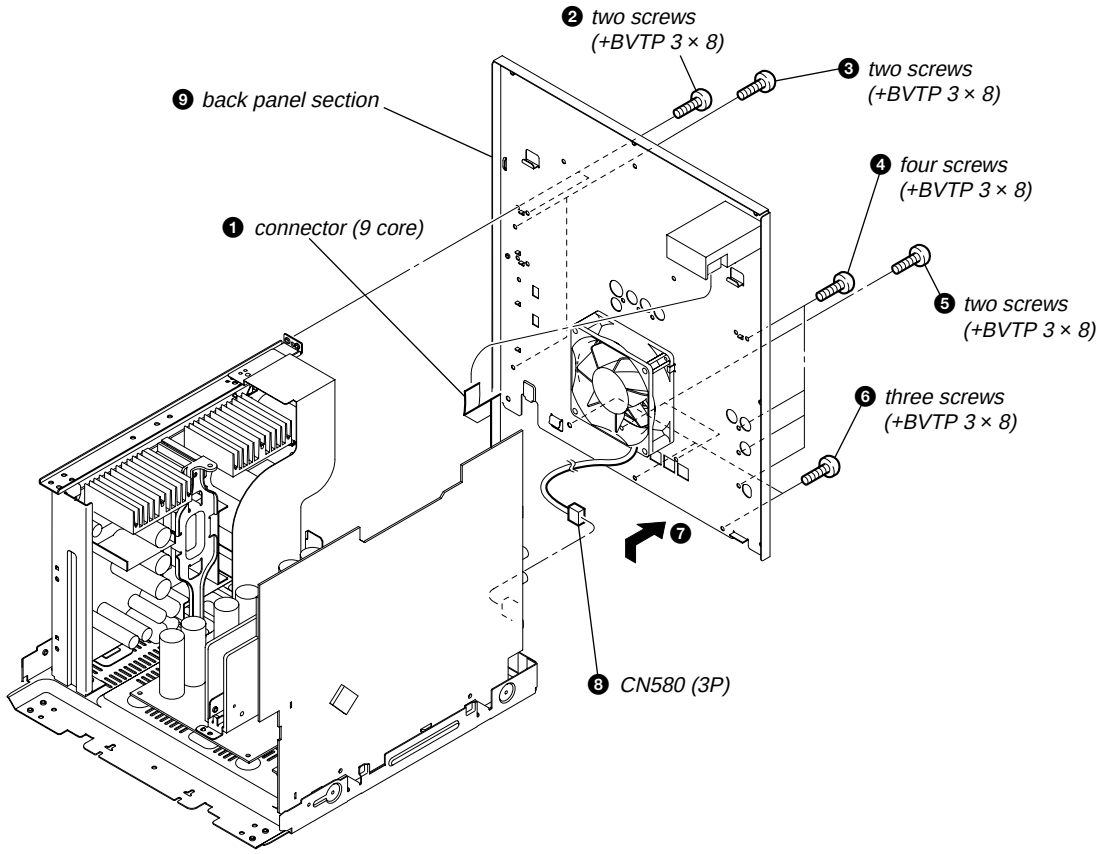
2-3. FRONT PANEL SECTION


⓫ CN503 (3P)
⓾ CN205 (9P)
⓬ CN1967 (2P)
❷ screw (tapping screw)
❶ screw (+BVTP 3 × 8)
❺
❻ wire (flat type) (25 core) (CN201)
❸ screw (tapping screw)
❼ wire (flat type) (11 core) (CN101)
❾ CN121 (3P)
⓭ front panel section
❽ CN131 (8P)
❹ three screws (+BVTP 3 × 8)

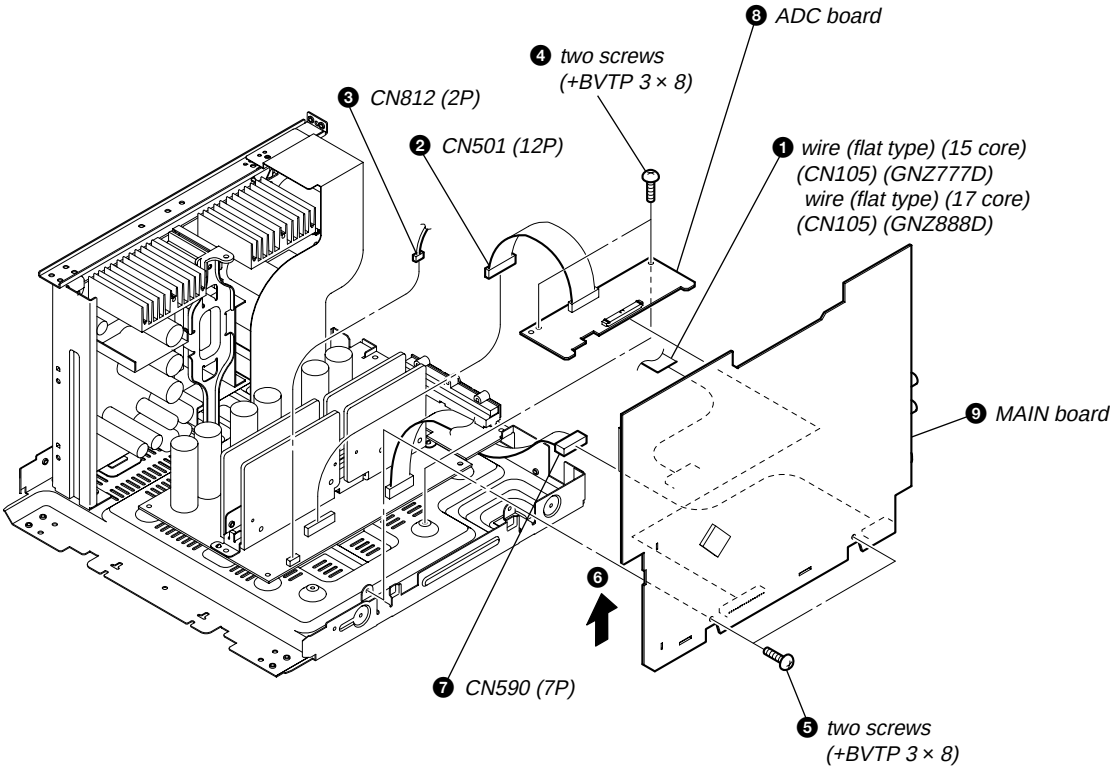
2-4. DVD BLOCK SECTION


❷ wire (flat type) (19 core) (CN521)
❸ wire (flat type) (13 core) (CN301)
❺ three screws (+BVTP 3 × 8)
❼
❽ DVD block section
❹ CN1880 (8P)
❻ four screws (+BVTP 3 × 8)
❶ wire (flat type) (13 core) (CN701)

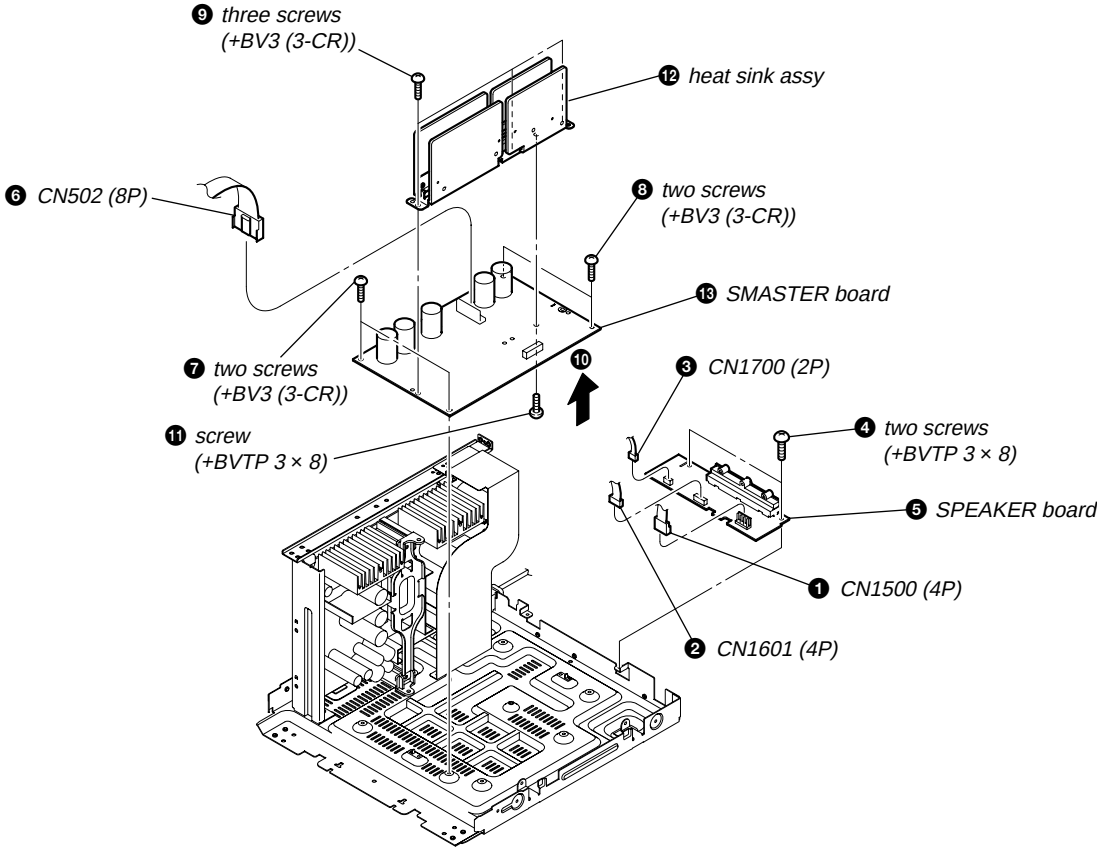
2-5. BACK PANEL SECTION



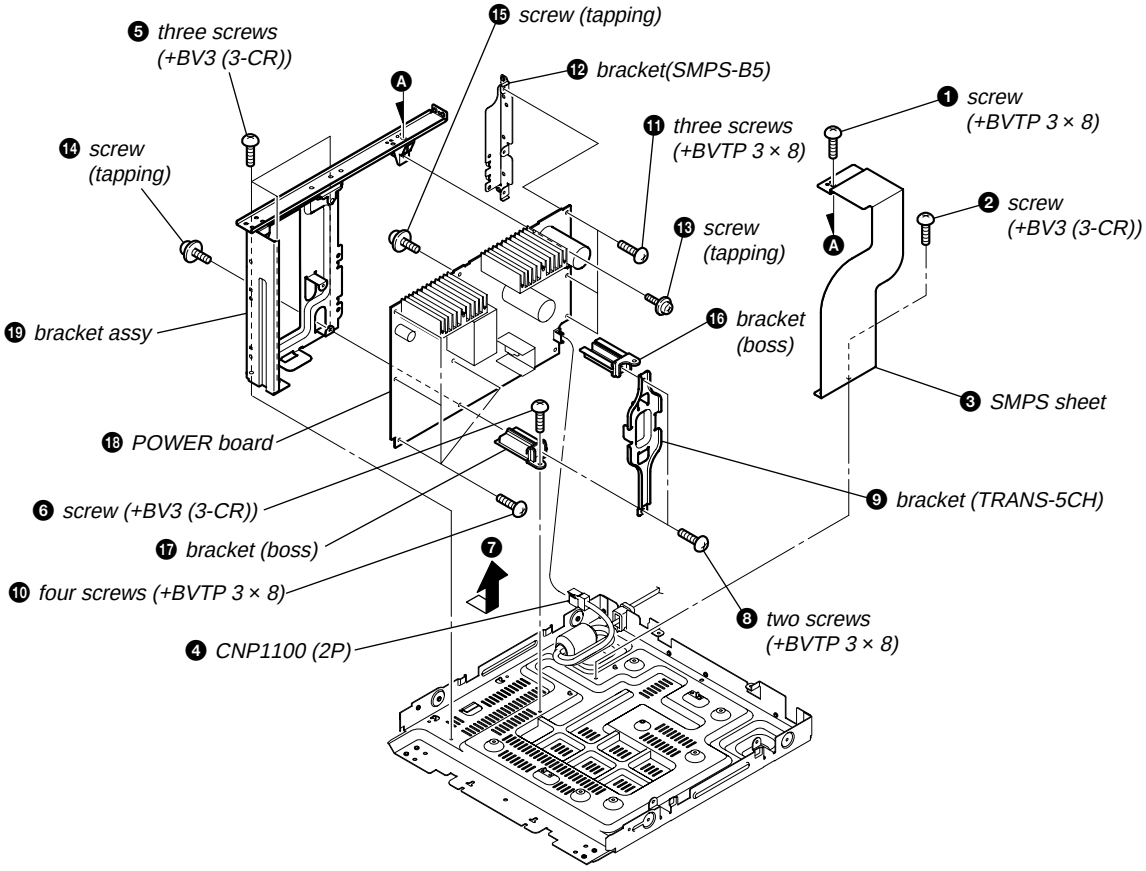
2-6. MAIN BOARD, ADC BOARD



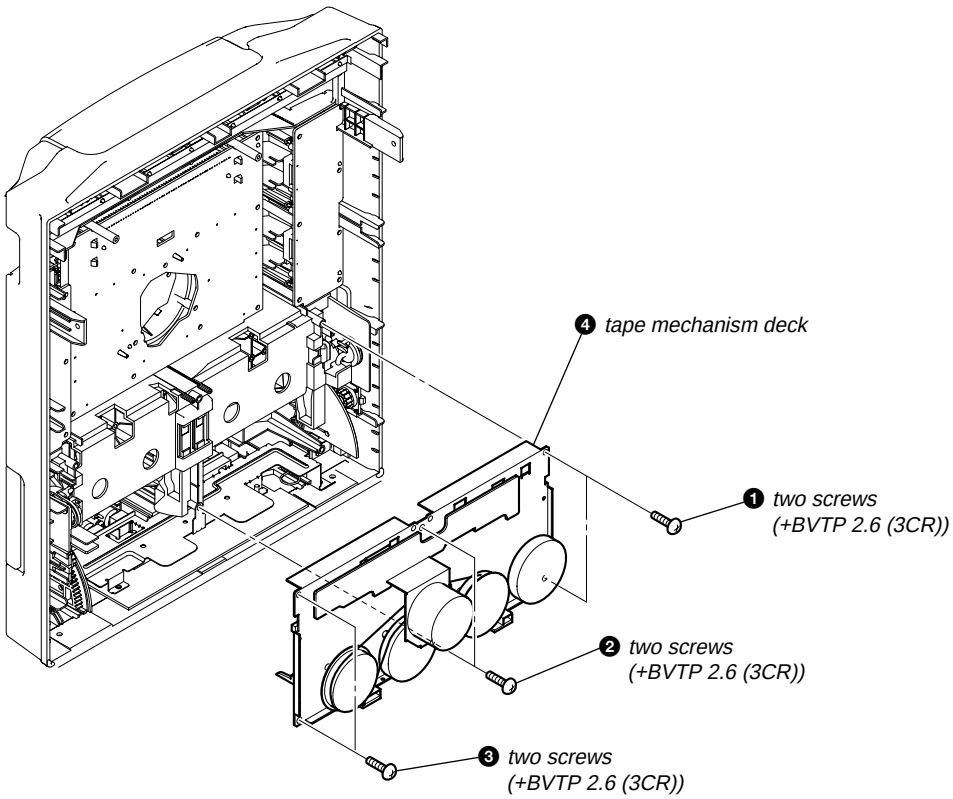
2-7. SPEAKER BOARD, SMASTER BOARD



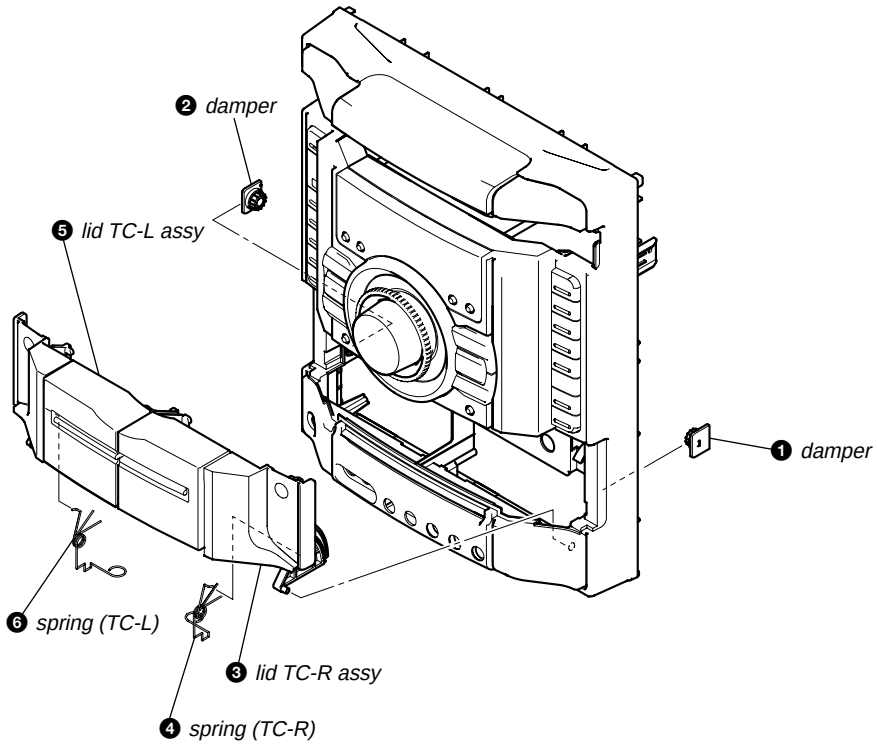
2-8. POWER BOARD



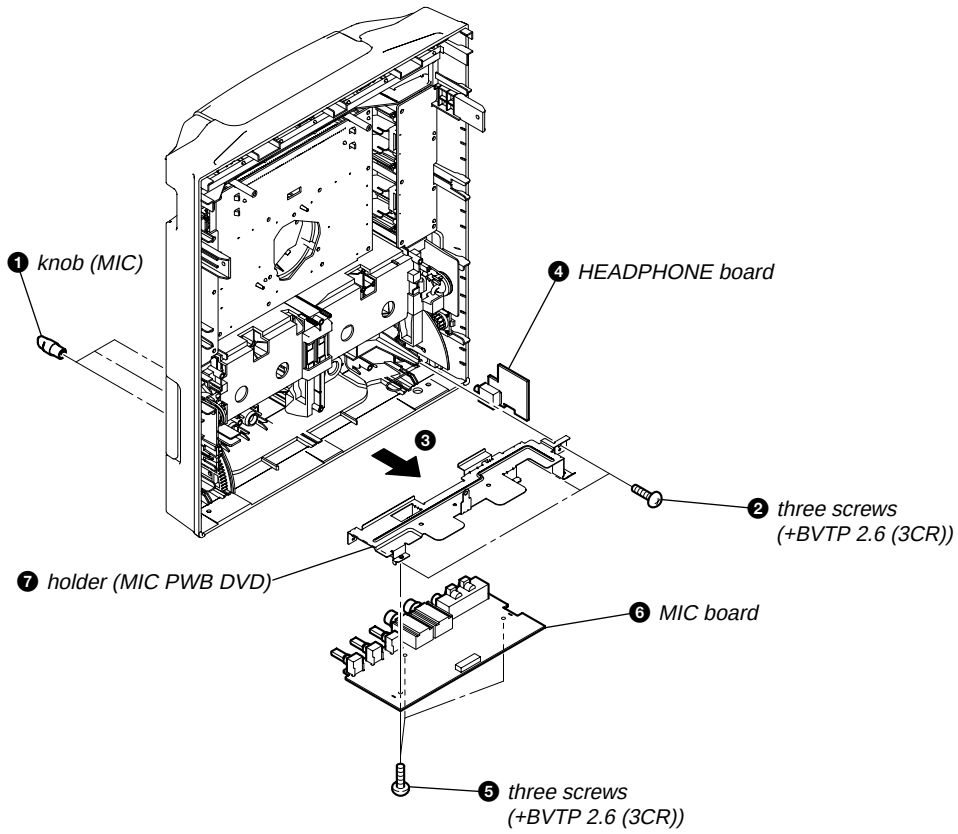
2-9. TAPE MECHANISM DECK



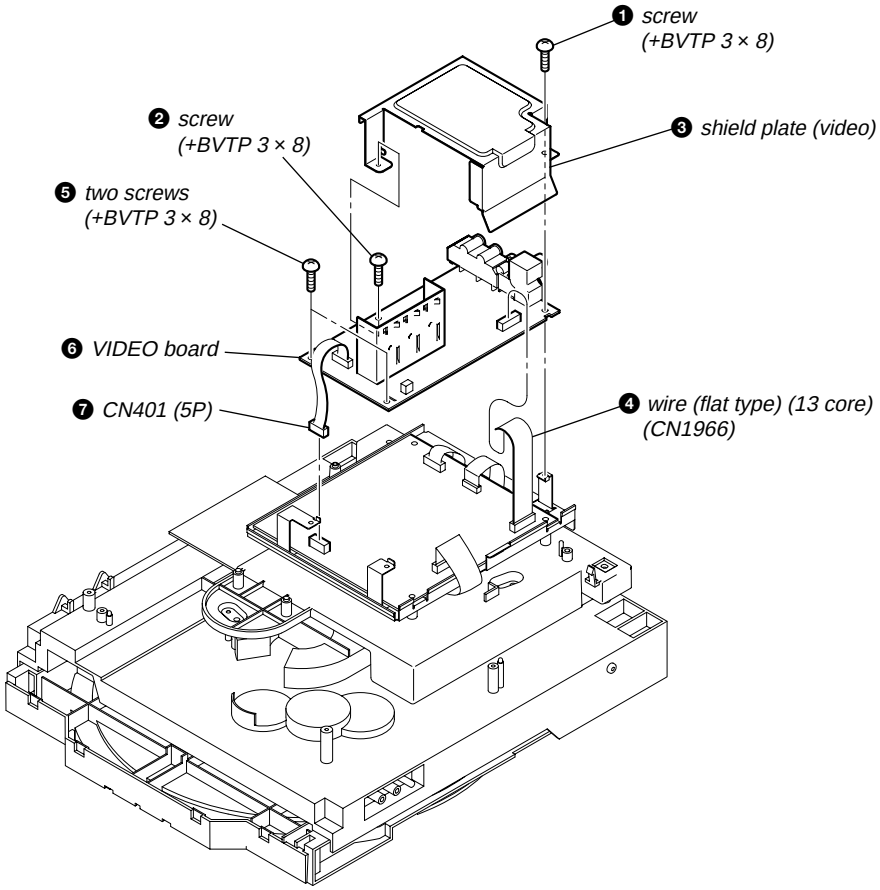
2-10. LID TC-R ASSY, LID TC-L ASSY



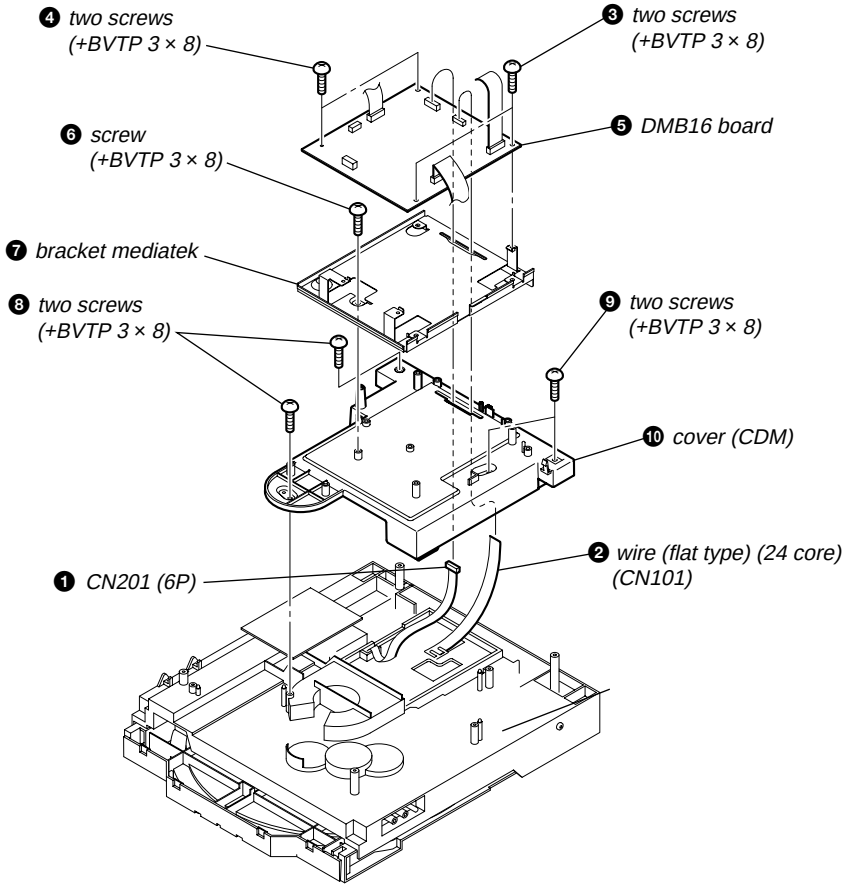
2-11. MIC BOARD, HEADPHONE BOARD



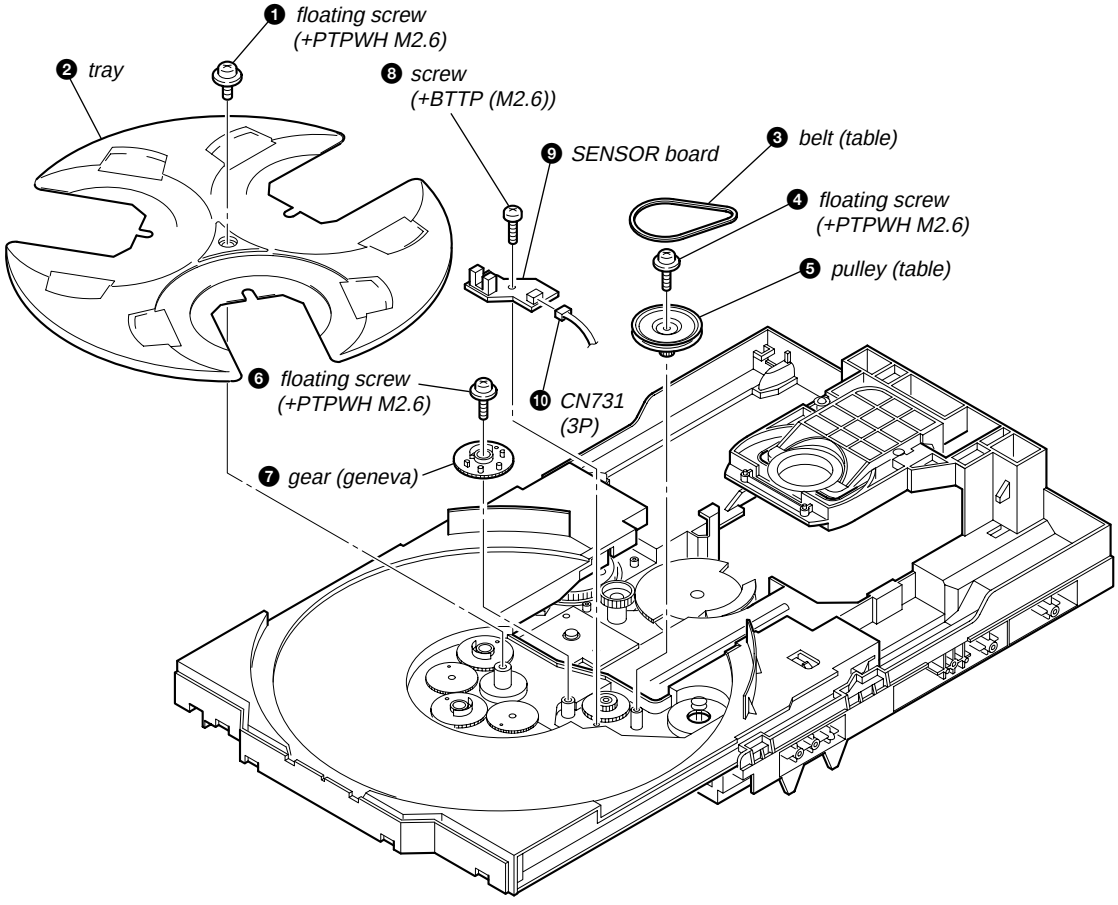
2-12. VIDEO BOARD



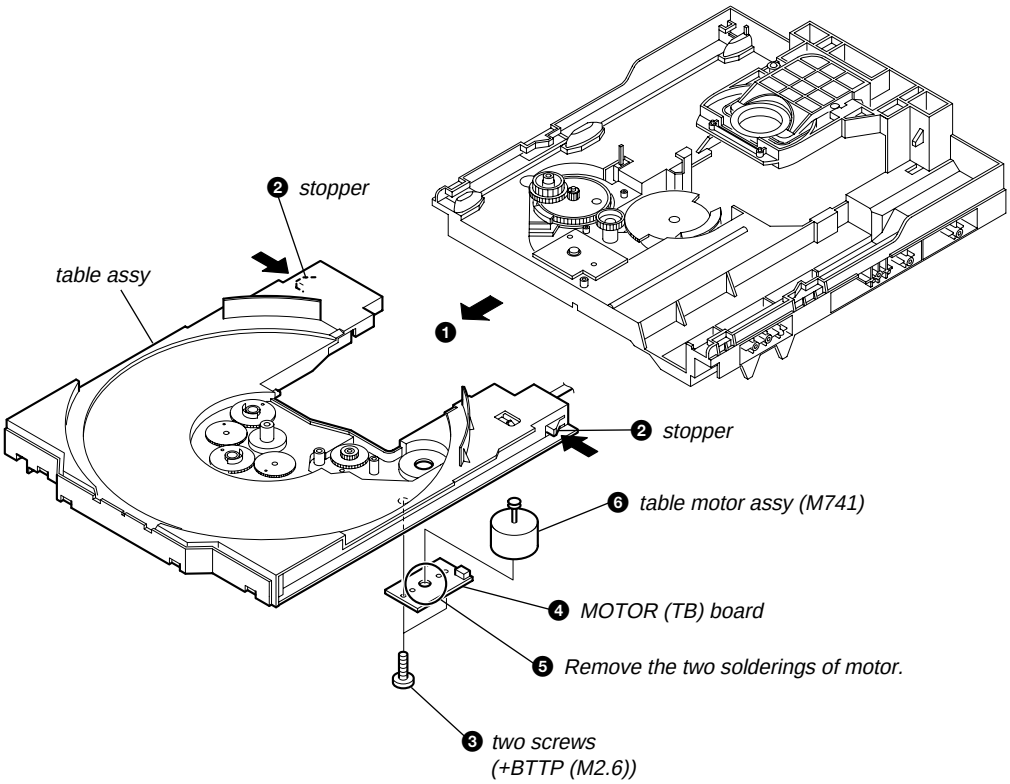
2-13. DMB16 BOARD


❹ two screws (+BVTP 3 × 8)
❸ two screws (+BVTP 3 × 8)
❻ screw (+BVTP 3 × 8)
❺ DMB16 board
❼ bracket mediatek
❽ two screws (+BVTP 3 × 8)
❾ two screws (+BVTP 3 × 8)
❿ cover (CDM)
❷ wire (flat type) (24 core) (CN101)
❶ CN201 (6P)

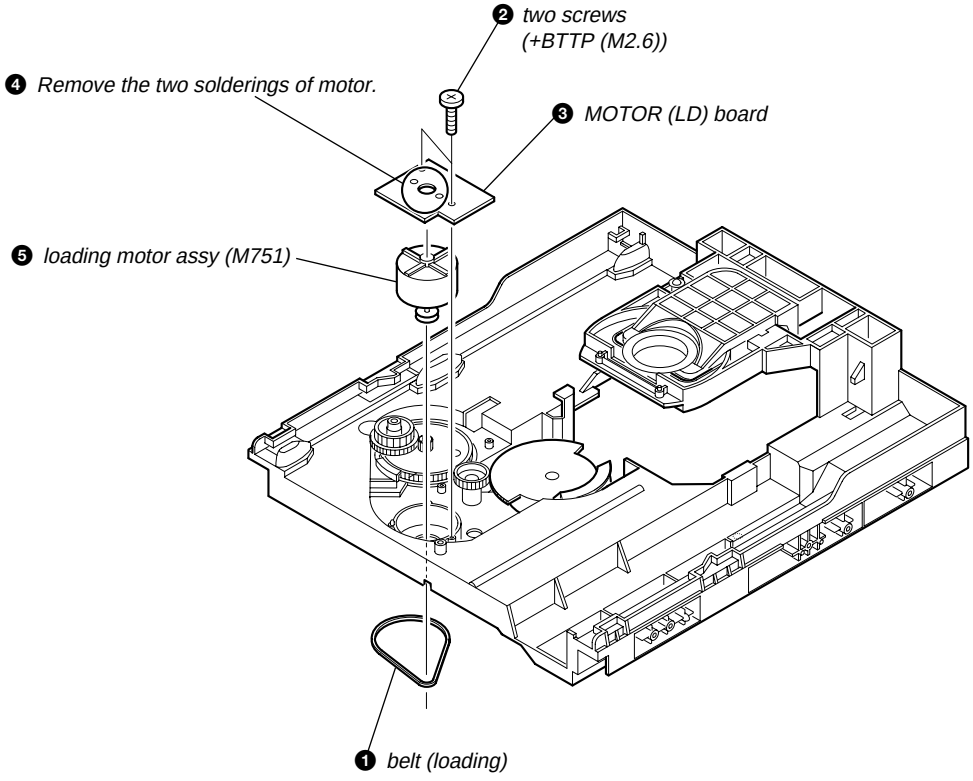
2-14. SENSOR BOARD



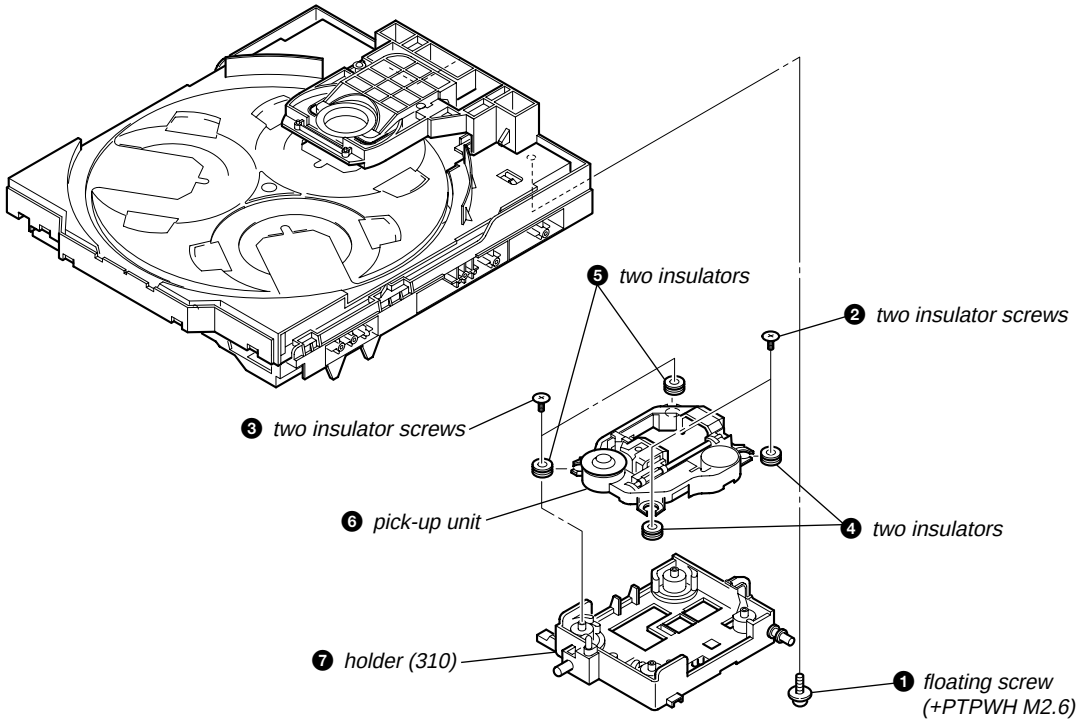
2-15. MOTOR (TB) BOARD



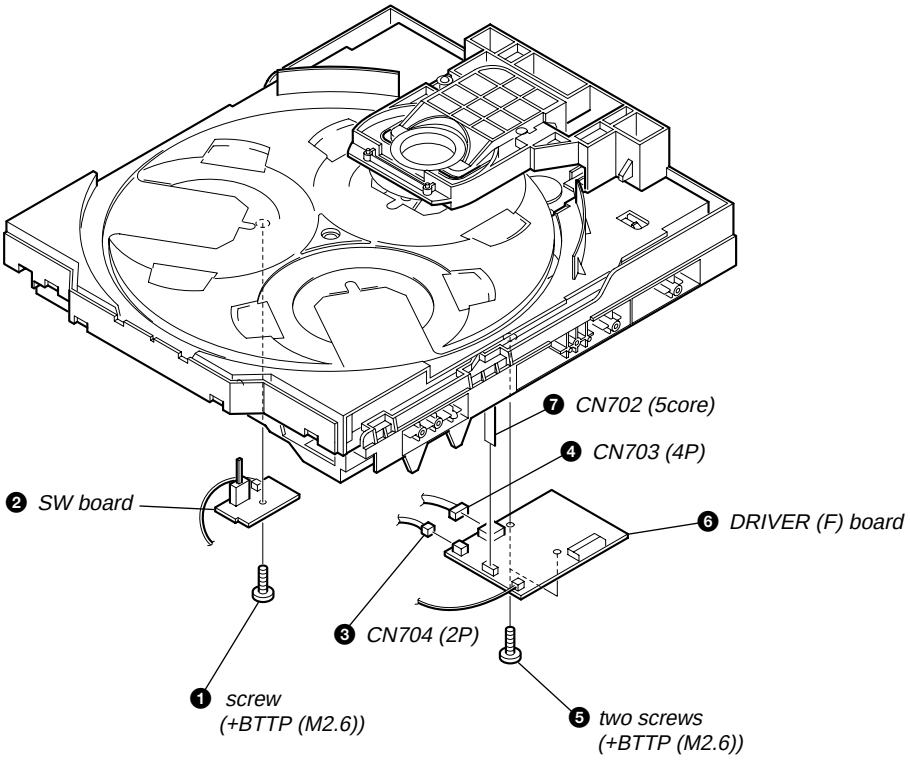
2-16. MOTOR (LD) BOARD



2-17. PICK-UP UNIT



2-18. SW BOARD, DRIVER BOARD



SECTION 3
TEST MODE

[PANEL TEST MODE]

- This mode is used to check the fluorescent indicator tube, LEDs, keys, VOLUME jog and OPERATION DIAL jog, model, destination and software version.

Procedure:

1. Press ■ button, ILLUMINATION button and DISC 2 button simultaneously.
2. All LEDs and segments in fluorescent indicator tube are lighted up. All LEDs are lighted up in red.
3. When you want to enter to the software version dispaly mode, press DISC 1 button. The model information appears on the fluorescent indicator tube. “GRL2D” is shown for HCD-GNZ777D and “GRL4D” is shown for HCD-GNZ888D. Press DISC 1 button again to view the destination information.
4. Each time DISC 1 button is pressed, the display changes from MC version, SYS version, UI version, DVD version, CDMA version, CDMB version, ST version, TA version, TM version, TC version in this order, and returns to the model information display.
5. When DISC 3 button is pressed while the version numbers are being displayed except model and destination, the date of the software creation appears. When DISC 3 button is pressed again, the display returns to the software version display. When DISC 1 button is pressed while the date of the software creation is being displayed, the date of the software creation is displayed in the same order of software version display.
6. Press DISC 2 button, the key check mode is activated.
7. In the key check mode, the fluorescent indicator tube displays “K 0 V0 J0”.
   Each time a button is pressed, “K” value increases. However, once a button has been pressed, it is no longer taken into account.
   “V” value increases in the manner of 0, 1, 2, 3 ... if MASTER VOLUME knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if MASTER VOLUME knob is turned counterclockwise.
   “J” value increases in the manner of 0, 1, 2, 3... if OPERATION DIAL knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7... if OPERATION DIAL knob is turned counterclockwise.
8. When DISC SKIP/EX-CHANGE button is pressed after all LEDs and segments in fluorescent indicator tube light up, alternate segments in fluorescent indicator tube would light up. If you press DISC SKIP/EX-CHANGE button again, another half of alternate segments in fluorescent indicator tube would light up. When DISC SKIP/EX-CHANGE button is pressed again, all segments lights off. Press DISC SKIP/EX-CHANGE button again would cause all segments lights up.
9. To release from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[COMMON TEST MODE]

- This mode is used to check operations of the respective sections of Amplifier and Tape.

Procedure:

- To enter Common Test Mode

1. Press ■ button, ILLUMINATION button and DISC 3 button simultaneously.
2. The DVD ring flash synchronously on the fluorescent indicator tube. The function is changed to TV.

- Check of Amplifier

1. Press EQ BAND/MEMORY button repeatedly until a message “GEQ MAX” appears on the fluorescent indicator tube. GEQ increases to its maximum.
2. Press EQ BAND/MEMORY button repeatedly until a message “GEQ MIN” appears on the fluorescent indicator tube. GEQ decreases to its minimum.
3. Press EQ BAND/MEMORY button repeatedly until a message “GEQ FLAT” appears on the fluorescent indicator tube. GEQ is set to flat.
4. When the MASTER VOLUME knob is turned clockwise even slightly, the sound volume increases to its maximum and a message “VOLUME MAX” appears on the fluorescent indicator tube.
5. When the MASTER VOLUME knob is turned counterclockwise even slightly, the sound volume decreases to its minimum and a message “VOLUME MIN” appears on the fluorescent indicator tube.

- Tape function

1. When a tape is inserted in Deck B and recording is started, the function is changed to TV. When CD SYNC button is pressed during recording in function, ALC (Automatic Logic Control) is turned on.
2. During recording, press ◀◀ button will stop the recording and the function is changed to TAPE B and rewind the tape in Deck B until the recording start position and playback of the tape in Deck B is started. If the REC PAUSE/START button is pressed for a pause and pressed again to resume recording during recording time, when the tape is rewind, the tape will be rewind until the position where the pause is applied.

- To release from Common Test mode

1. To release from this mode, press I/⏻ button.
2. The cold reset is enforced at the same time.

[COLD RESET]

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press I/⏻ button to turn on the system.
2. Press ■ button, ILLUMINATION button, and I/⏻ button simultaneously.
3. The message “COLD RESET” appears on the fluorescent indicator tube. Then, the fluorescent indicator tube becomes blank for a while, and the system is reset.

[VACS ON/OFF]

- This mode is used to switch on and off the VACS (Variable Attenuation Control System).

Procedure:

1. Press I/⏻ button to turn on the system.
2. Press ■ button, GROOVE button and DISC 1 simultaneously. The message “VACS OFF” or “VACS ON” appears on the fluorescent indicator tube.

[VACS DISPLAY]

- This mode is used to display the real time VACS level.

Procedure:

1. Press I/⏻ button to turn on the system.
2. Press ■ button, DVD button and DISC SKIP/EX-CHANGE button simultaneously.
3. The fluorescent indicator tube displays “VACS A”. “A” represents VACS level which is triggered by signal level.

- To release from VACS Display mode

1. To release from this mode, press I/⏻ button.

[REMOTE DISABLE MODE]

- This mode let you disable the remote commander reception. When this mode is activated, the system will not response if the button on the remote commander is pressed. The message "RM DISABLE" appears on the fluorescent indicator tube.
  This mode is essential for conducting test and repairing when no interruption from the other remote commander is expected. This mode is cancelled automatically when the system is turned off.

Procedure:

1. Press I/⏻ button to turn on the system.
2. Press ■ button, GROOVE button and DISC 3 button simultaneously until "SIRCS ON" or "SIRCS OFF" appears on the fluorescent indicator tube.

[TV/SAT SWITCHING]

- This mode let you switch from TV to SAT and vice-versa.

Procedure:

1. Press I/⏻ button to turn on the system.
2. Select TV function.
3. Press TV/SAT button and I/⏻ button simultaneously. The function will change to SAT. Press the same buttons again to change from SAT to TV.

[TUNER STEP CHANGE]

- The step interval of AM channels can be toggled between 9 kHz and 10 kHz. This mode is not available for Saudi Arabia and Russia models.

Procedure:

1. Press I/⏻ button to turn on the system.
2. Press TUNER/BAND button repeatedly to select the "AM".
3. Press I/⏻ button to turn off the system.
4. Press ILLUMINATION button and I/⏻ button simultaneously. The system will turn on automatically. The message "AM 9K STEP" or "AM 10K STEP" appears on the fluorescent indicator tube and thus the channel step is changed.

[FACTORY PRESET]

- This mode is used to load the factory used frequencies into all FM and AM preset stations. Originally, frequencies of all FM and AM preset stations are set to the minimum.

Procedure:

1. Press I/⏻ button to turn on the system.
2. Select TUNER function.
3. Press TUNER button, ❚❚ button, and ■ button simultaneously. The message "FACTORY" appears on the fluorescent indicator tube.

[TCM OFFLINE MODE]

- This mode prevents the system from turning off automatically when TCM is not connected. Therefore, measurements can be done even when TCM is not connected during production.

Procedure:

1. When the system is turned off, press EQ BAND/MEMORY button, TAPE A/B button and I/⏻ button simultaneously. The system will turn on automatically.
2. The message "TCM OFFLINE" will appears on the fluorescent indicator tube.

- To release from TCM Offline Mode
  To release from this mode, perform "COLD RESET" or turn off the power supply.

[DVD SHIP MODE (WITH MEMORY CLEAR)]

- This mode moves the optical pick-up to the position durable to vibration and clears all data including preset data stored in the RAM to initial conditions after the power supply is turned off. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press I/⏻ button to turn on the system.
2. Select DVD function.
3. Press ■ button, GROOVE button and I/⏻ button simultaneously during "DVD NO DISC" condition. The system will turn off automatically.
4. After the "STANDBY" blinking display finishes, a message "MECHA LOCK" appears on the fluorescent indicator tube and the DVD ship mode is set.

[DVD SHIP MODE (WITHOUT MEMORY CLEAR)]

- This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press I/⏻ button to turn on the system.
2. Select DVD function.
3. Press DVD button and I/⏻ button simultaneously during "DVD NO DISC" condition. The system will turn off automatically.
4. After the "STANDBY" blinking display finishes, a message "MECHA LOCK" appears on the fluorescent indicator tube and the DVD ship mode is set.

[DVD TRAY LOCK MODE]

- This mode let you lock the disc tray. When this mode is activated, the disc tray will not open when OPEN/CLOSE button or DISC SKIP/EX-CHANGE button is pressed. The message "LOCKED" will appears on the fluorescent indicator tube.

Procedure:

1. Press I/⏻ button to turn on the system.
2. Select DVD function.
3. Press ■ button and OPEN/CLOSE button simultaneously and hold down until "LOCKED" or "UNLOCKED" appears on the fluorescent indicator tube (around 5 seconds).

[DVD COLOR SYSTEM]

- This mode let you change the color system of the video output from PAL to NTSC or vice-versa. This mode is not available for Latin American and Russian models.

Procedure:

1. Press I/⏻ button to turn on the system.
2. Select DVD function.
3. Press I/⏻ button again to turn off the system.
4. Press ❚❚ button and I/⏻ button simultaneously. The system will turn on automatically.
   The message "COLOR PAL" or "COLOR NTSC" appears on the fluorescent indicator tube.

[PROGRESSIVE]

- This mode let you change the format of the video output from the COMPONENT OUT jacks among PROGRESSIVE AUTO, PROGRESSIVE VIDEO and INTERLACE.

Procedure:

1. Press I/⏻ button to turn on the system.
2. Select DVD function.
3. Press DVD button and DISPLAY button simultaneously. "P AUTO" or "P VIDEO" or "INTERLACE" appears on the fluorescent indicator tube.

[DVD FIRMWARE DISPLAY]

- This mode is used to display the DVD firmware version.

Procedure:

1. Press I/⏻ button to turn on the system.
2. Press DVD button to switch to DVD function.
3. Press I/⏻ button again to turn off the system.
4. Press ■ button and I/⏻ button. The system turns on automatically.
5. The version of DVD firmware appears on the on-screen display on TV.

- To release from DVD Firmware Display Mode

  To release from this mode, press I/⏻ button to turn off the system.

[DVD OFFLINE]

- When the DVD motherboard is not connected to the main unit, the system would go into protector mode (caused by DVD Power Monitor) automatically. DVD Offline mode is used to prevent protector when the DVD motherboard is not connected.

Procedure:

1. After turn on the power supply (the system is turned off), press ■ button, SOUND FIELD button and DISC 1 button simultaneously. The system will turn on automatically.
2. The message "DVD OFFLINE" will appears on the fluorescent indicator tube.

- To release from DVD Offline Mode

  To release from this mode, perform "COLD RESET" or turn off the power supply.

[DVD SERVICE MODE]

- This mode let you make diagnosis and adjustment easily by using the remote commander and the TV. The instructions, diagnostic results, etc. are given on the on-screen display.

• TEST DISC LIST

Be sure to use the DVD disc that matches the signal standards of your region.

• CD

YEDS-18 (Part No.: 3-702-101-01)
PATD-012 (Part No.: 4-225-203-01)

• DVD SL (Single Layer)

NTSC : HLX-503 (Part No.: J-6090-069-A)
HLX-504 (Part No.: J-6090-088-A)
PAL : HLX-506 (Part No.: J-6090-077-A)

• DVD DL (Dual Layer)

NTSC : HLX-501 (Part No.: J-6090-071-A)
HLX-505 (Part No.: J-6090-089-A)
PAL : HLX-507 (Part No.: J-6090-078-A)

- Procedure to enter to DVD Service Mode:

1. Press I/⏻ button to turn on the system.
2. Select DVD function.
3. Press ■ button and OPEN/CLOSE button simultaneously and then turn the VOLUME knob clockwise.
4. The message "SERVICE IN" appears on the fluorescent indicator tube and the Top Menu of Remocon Diagnosis Menu appears on the on-screen display on the TV. The model name, main unit's micom version information (IF-con) and DVD firmware version information (Syscon) are displayed at the bottom of the on-screen display.

```
        Remocon Diagnosis Menu

0. External Chip Check
1. Servo Parameter Check
2. Drive Manual Operation
3. Emergency History
4. Version Information


Model Name   : GRL2D_ME
IF-con       : Ver. 01.00 (0000)
Syscon       : Ver. 1.200
```

5. To execute each function, press its number by using numeric button on the remote commander.
6. To release from this mode, press I/⏻ button to turn off the system.

- Execute IOP Measurement

  In order to execute IOP measurement, the following standard procedures must be followed.

1. From the Top Menu of Remocon Diagnosis Menu, select "2. Drive Manual Operation" by pressing the 2 button on the remote commander. The following screen appears on the on-screen display.

```
        Drive Manual Operation

1. Servo Control
2. Track/Layer Jump
3. Manual Adjustment
4. Mecha test mode
5. MIRR time Adjust
0. Return to Top Menu
```

2. Select "3. Manual Adjustment" by pressing the 3 button on the remote commander. The following screen appears on the on-screen display.

```
          Manual Adjust

1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eg Boost Adjust:
6. Iop:
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:

↑↓ Change Value
RETURN Return to previous menu
```

3. Select “6. Iop:” by pressing [6] button on the remote commander.
4. Wait until a hexadecimal number appears in the on-screen display as below:

```
Manual Adjust

1. Track Balance Adjust:
2. Track Gain Adjust:
3. Focus Balance Adjust:
4. Focus Gain Adjust:
5. Eg Boost Adjust:
6. Iop. ED
7. TRV. Level:
8. S curve(FE) Level:
9. RFL(PI) Level:
0. MIRR Time:

[↑][↓] Change Value
[RETURN] Return to previous menu
```

5. Convert data from hexadecimal to decimal by using conversion table.
6. Please find the label on the rear of the BU (Base Unit). The default IOP value is written in the label.
7. Subtract between these two values.
8. If the remainder is smaller than 93 (decimal), then it is OK. However if the value is higher than 93, then the BU is defective and need to be change.
9. Press [RETURN] button on the remote commander to return to previous menu.
10. Press [0] button on the remote commander to return to the Top Menu of Remocon Diagnosis Menu.
11. Press [I/⏻] button to turn off the system.

- Check Emergency History

To check the emergency history, please follow the following procedure.

1. From the Top Menu of Remocon Diagnosis Menu, select “3. Emergency History” by pressing the [3] button on the remote commander. The following screen appears on the on-screen display.

```
Emg.History Check

Laser Hours      CD     999h      59min
                 DVD    999h      59min

1.  01  05  04  04      00  92  46  00
    00  00  00  00      00  00  23  45
2.  02  02  01  01      00  A9  4B  00
    00  00  00  00      00  00  23  45

[Next] Next Page  [Prev] Prev Page
[0] Return to Top Menu
```

2. You can check the total time when the laser is turned on during playback of DVD and CD from the above menu. The maximum time, which can be displayed are 999h 59min.
3. You can check the error code of latest 10 emergency history from the above menu. To view the previous or next page of emergency history, press [⏮] or [⏭] on the remote commander. The error code consists of

- Error Code

```
Example of Error code

1. 01  05  04  04      00  92  46  00
   00  00  00  00      00  00  23  45
```

The meaning of error code is as below:
01: Communication error (No reply from syscon)
02: Syscon hung up
03: Power OFF request when syscon hung up
19: Thermal shutdown
24: MoveSledHome error
25: Mechanical move error (5 Changer)
26: Mechanical move stack error
30: DC motor adjustment error
31: DPD offset adjustment error
32: TE balance adjustment error
33: TE sensor adjustment error
34: TE loop gain adjustment error
35: FE loop gain adjustment error
36: Bad jitter after adjustment
40: Focus NG
42: Focus layer jump NG
52: Open kick spindle error
51: Spindle stop error
60: Focus on error
61: Seek fail error
62: Read Q data/ID error
70: Lead in data read fail
71: TOC read time out (CD)
80: Can’t buffering
81: Unknown media type

- Parameter of error code

This is the detail of error code.

```
Example of Error code

1.  01  05  04  04      00  92  46  00
    00  00  00  00      00  00  23  45
```

- Time of error code

This is the laser time when an error occurred.

```
Example of Error code

1.  01  05  04  04      00  92  46  00
    00  00  00  00      00  00  23  45
```

To clear the Laser Hours

Press [(···) DISPLAY] button and then press [CLEAR] button. The data for both CD and DVD data are reset.

```
Emg.History Check

Laser Hours      CD     0h        0min
                 DVD    0h        0min

1.  01  05  04  04      00  92  46  00
    00  00  00  00      00  00  23  45
2.  02  02  01  01      00  A9  4B  00
    00  00  00  00      00  00  23  45

[Next] Next Page  [Prev] Prev Page
[0] Return to Top Menu
```

To clear the Emergency History

Press [DVD TOP MENU] button and then press [CLEAR] button. The error code for all emergency history would be reset.

```
                Emg.History Check

Laser Hours        CD     999h        59min
                   DVD    999h        59min

1.  00  00  00  00        00  00  00  00
    00  00  00  00        00  00  00  00
2.  00  00  00  00        00  00  00  00
    00  00  00  00        00  00  00  00

[Next] Next Page  [Prev] Prev Page
[0] Return to Top Menu
```

To clear the Initialize Setup Data

Press [DVD/TUNER MENU] button and then press [CLEAR] button on the remote commander.

```
                Emg.History Check

Laser Hours        CD     999h        59min
                   DVD    999h        59min

Initialize setup data...




[Next] Next Page  [Prev] Prev Page
[0] Return to Top Menu
```

To return to the Top Menu of Remocon Diagnosis Menu

Press [0] button on the remote commander.

- Check Version Information
  To check the version information, please follow the following procedure.

1. From the Top Menu of Remocon Diagnosis Menu, select “4. Version Information” by pressing the [4] button on the remote commander. The following screen appears on the on-screen display.

```
                Version information

Firm (Main) :  Ver. xxxxx
Firm (Sub) :  xxxxx
RISC :  xxxxx
8032 :  xxxxx
Audio DSP :  xxxxx
Servo DSP :  xxxxx


[0] Return to Top Menu
```

   To return to the Top Menu of Remocon Diagnosis Menu, press [0] on the remote commander.

SECTION 4
MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback heads — pinch rollers
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
FWD back tension	CQ-102C	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
REV	CQ-102RC	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	6.96 N • m to 14.02 N • m 71 to 143 g • cm (0.98 – 1.99 oz • inch)
FWD tension	CQ-403A	9.80 N • m 100 g or more (3.53 oz or more)
REV tension	CQ-403R	9.80 N • m 100 g or more (3.53 oz or more)

SECTION 5
ELECTRICAL ADJUSTMENTS

DVD SECTION

When the optical pick-up assy is replaced, perform the "Execute IOP Measurement".

Execute IOP Measurement (See page 25)

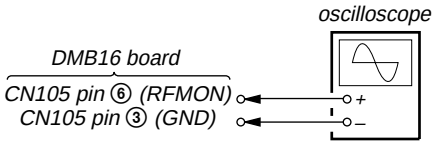
[TEST DISC LIST]

Be sure to use the DVD disc that matches the signal standards of your region.

• CD
YEDS-18 (Part No.: 3-702-101-01)
PATD-012 (Part No.: 4-225-203-01)
• DVD SL (Single Layer)
NTSC : HLX-503 (Part No.: J-6090-069-A)
HLX-504 (Part No.: J-6090-088-A)
PAL : HLX-506 (Part No.: J-6090-077-A)
• DVD DL (Dual Layer)
NTSC : HLX-501 (Part No.: J-6090-071-A)
HLX-505 (Part No.: J-6090-089-A)
PAL : HLX-507 (Part No.: J-6090-078-A)

[RFMON Level Check]

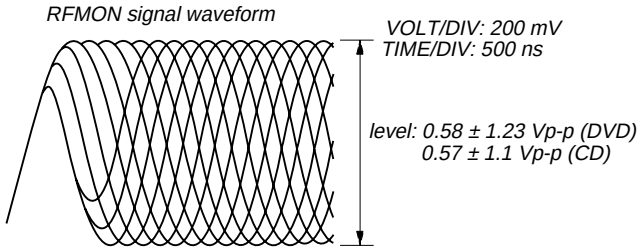
Connection:



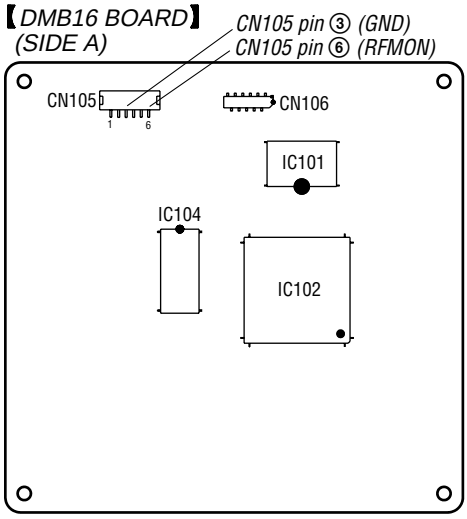
Procedure:

1. Connect an oscilloscope to CN105 pin ⑥ (RFMON) and CN105 pin ③ (GND) on the DMB16 board.
2. Turn the power on.
3. Set the test disc (refer to the TEST DISC LIST) on the tray and press ► button to playback.
4. Confirm that oscilloscope waveform is clear and check RFMON signal level is correct or not.

Note: A clear RFMON signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

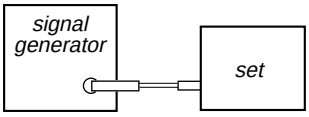


Checking Location: DMB16 board (Side A)



TUNER SECTION

FM TUNE LEVEL CHECK



Procedure:

1. Turn on the set.
2. Input the following signal from signal generator to FM antenna input directly.

Carrier frequency: A = 87.5 MHz, B = 98 MHz, C = 108 MHz

Deviation : 75 kHz
Modulation : 1 kHz
ANT input : 35 dBu (EMF)

Note: Use 75 ohm coaxial cable to connect signal generator and the set. You cannot use video cable for checking.
Use signal generator whose output impedance is 75 ohm.

3. Set to FM tuner function and tune A, B and C signals.
4. Confirm "TUNED" is lit on the display for A, B and C signals.

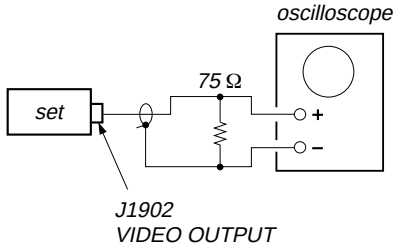
When the selected station signal is received in good condition, "TUNED" is displayed.

VIDEO SECTION

Video Level Check (VIDEO BOARD)

Purpose

This adjustment is made to satisfy the NTSC standard, and if not adjusted correctly, the brightness will be too large or small.



Procedure:

1. Connect oscilloscope to VIDEO output.
2. Load a DVD reference disc playback.
3. Check the video signal level is 1.00±0.07Vp-p.

DECK SECTION

0 dB=0.775 V

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

• Test Tape

Tape	Signal	Used for
P-4-A063	6.3 kHz, –10 dB	Azimuth Adjustment

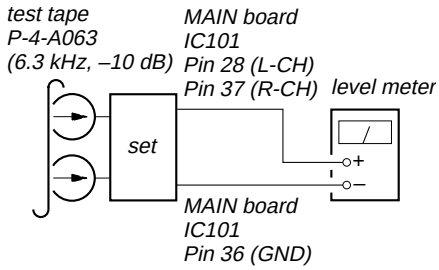
Record/Playback Head Azimuth Adjustment

DECK A **DECK B**

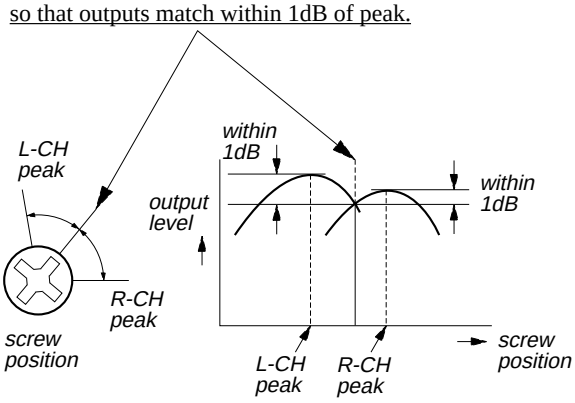
Note: Perform this adjustments for both decks

Procedure:

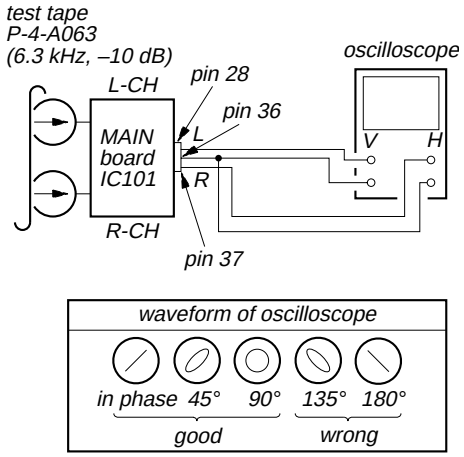
1. Mode: Playback



2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.

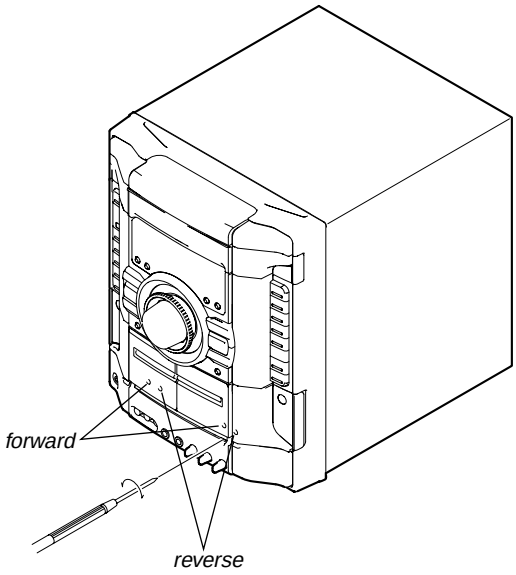


3. Mode: Playback



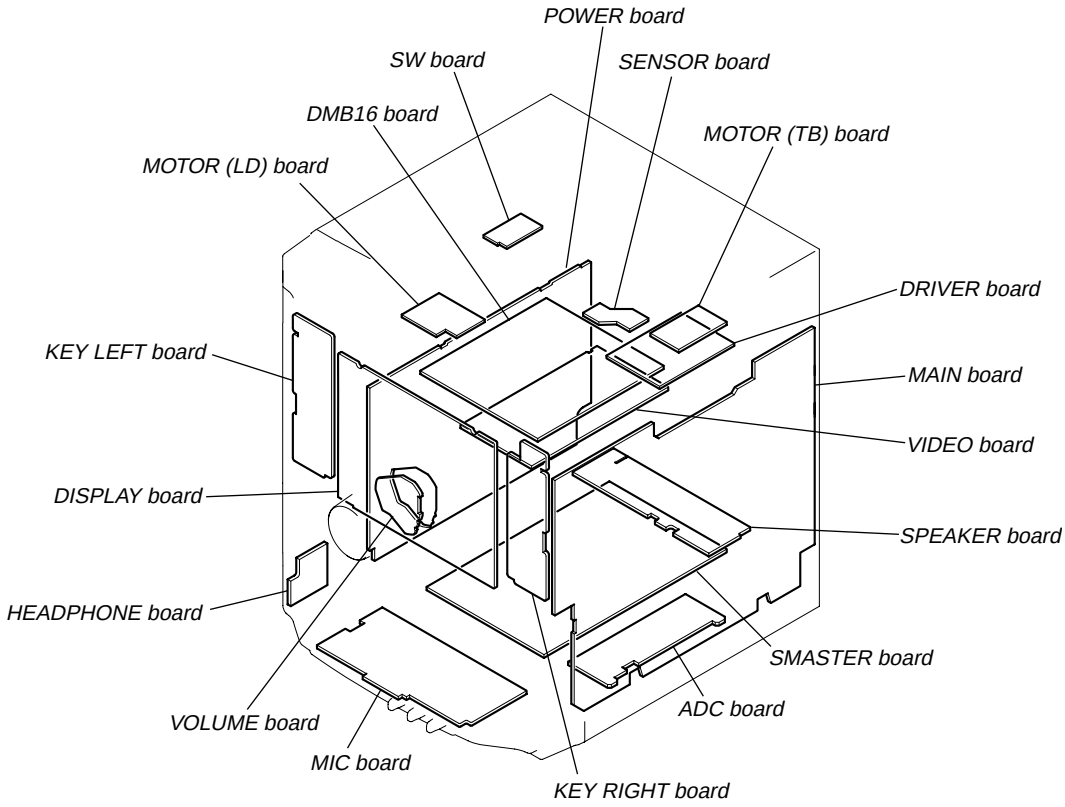
4. After the adjustments, apply suitable locking compound to the pats adjusted.

Adjustment Location: Playback Head (Deck A).
Record/Playback/Erase Head (Deck B).

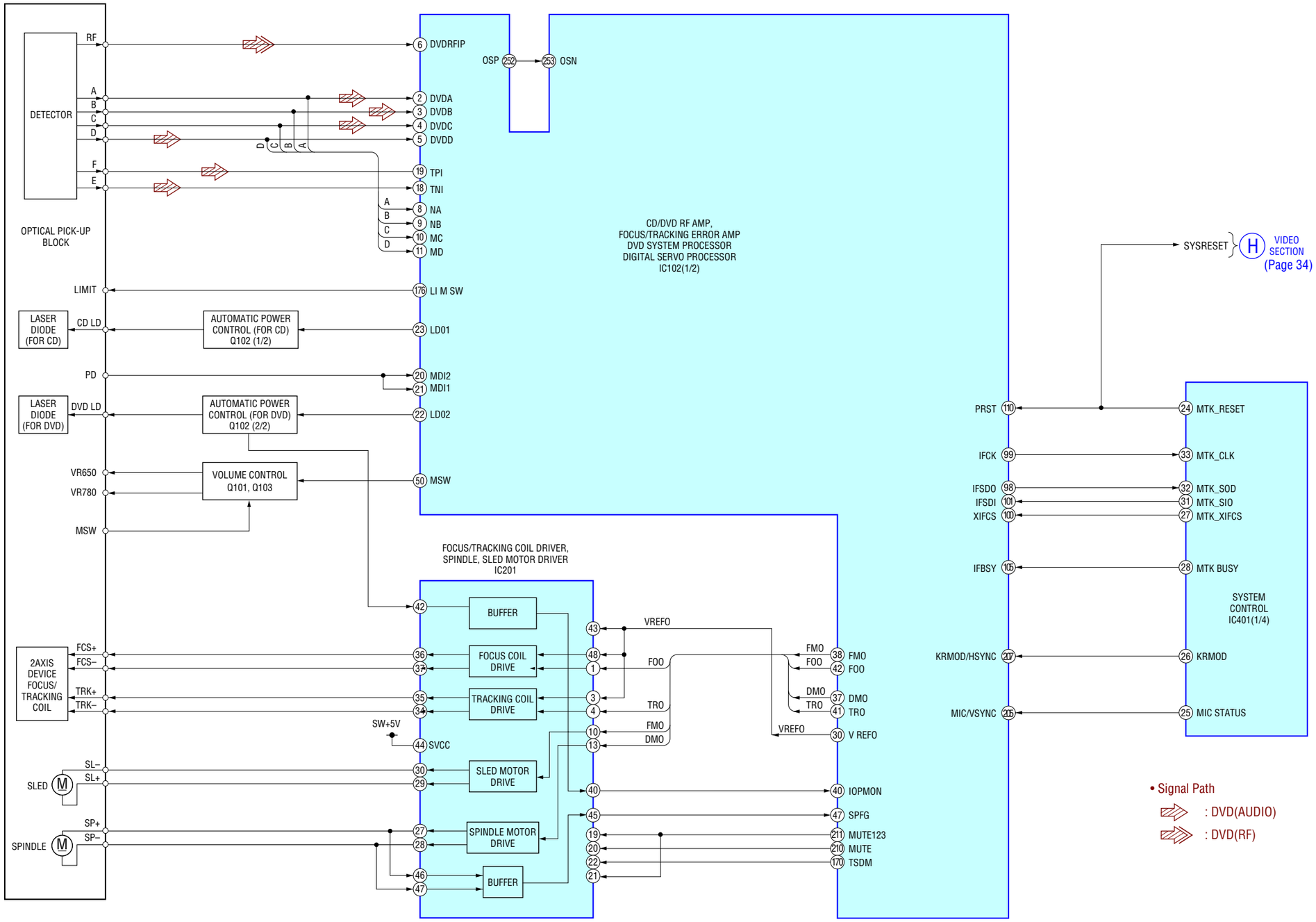


SECTION 6
DIAGRAMS

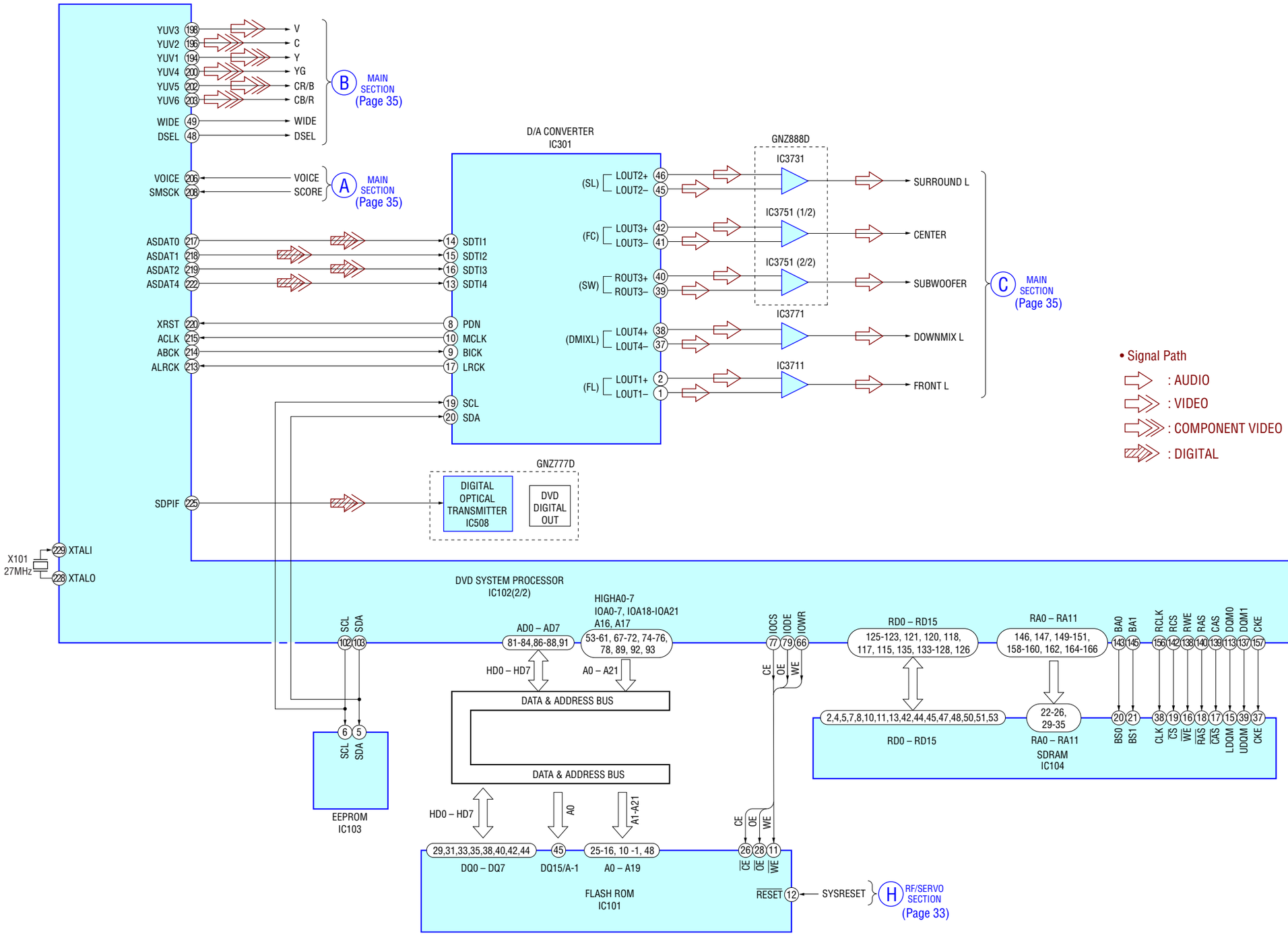
6-1. CIRCUIT BOARDS LOCATION



6-2. BLOCK DIAGRAM — RF/SERVO SECTION —

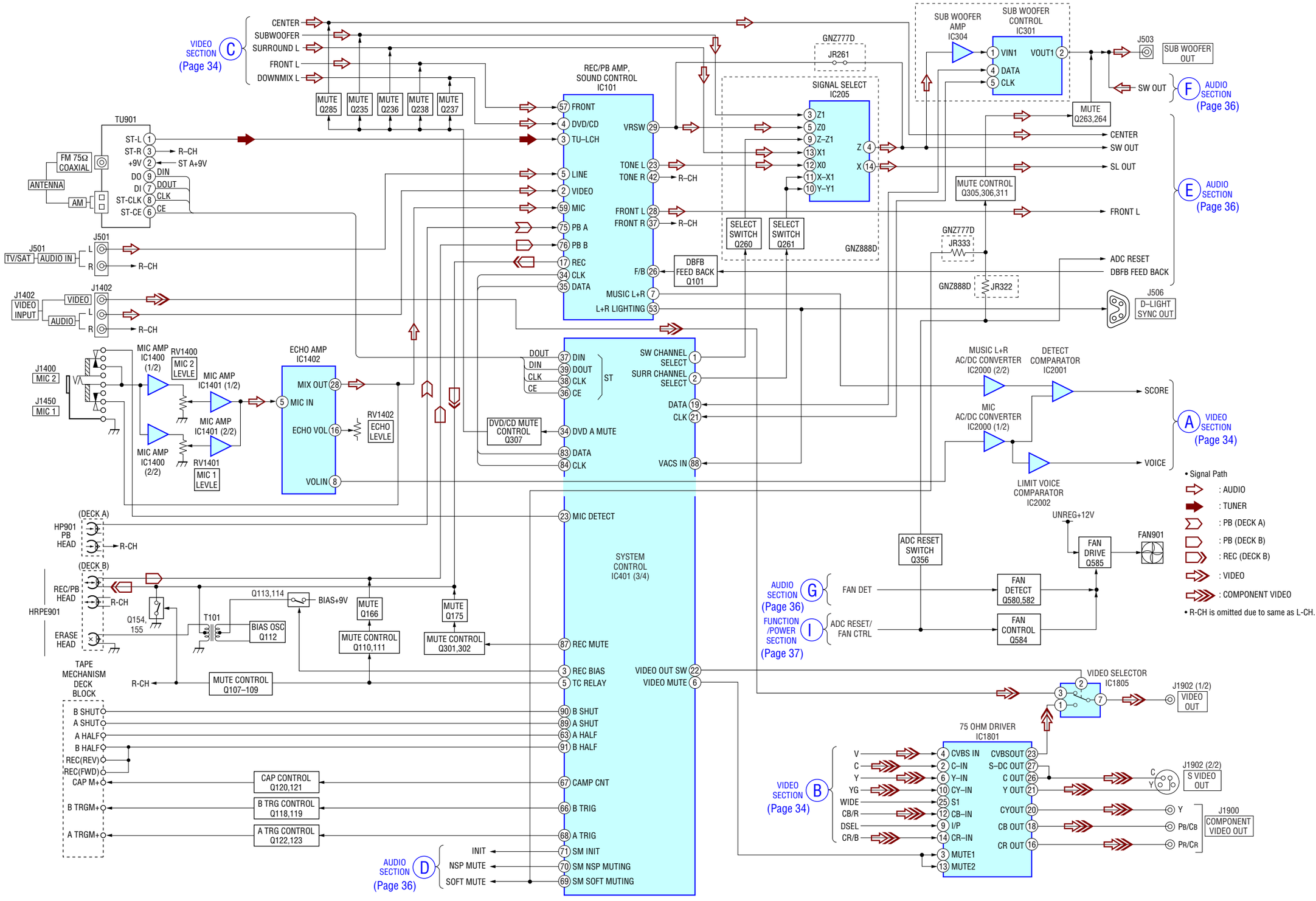


6-3. BLOCK DIAGRAM — VIDEO SECTION —

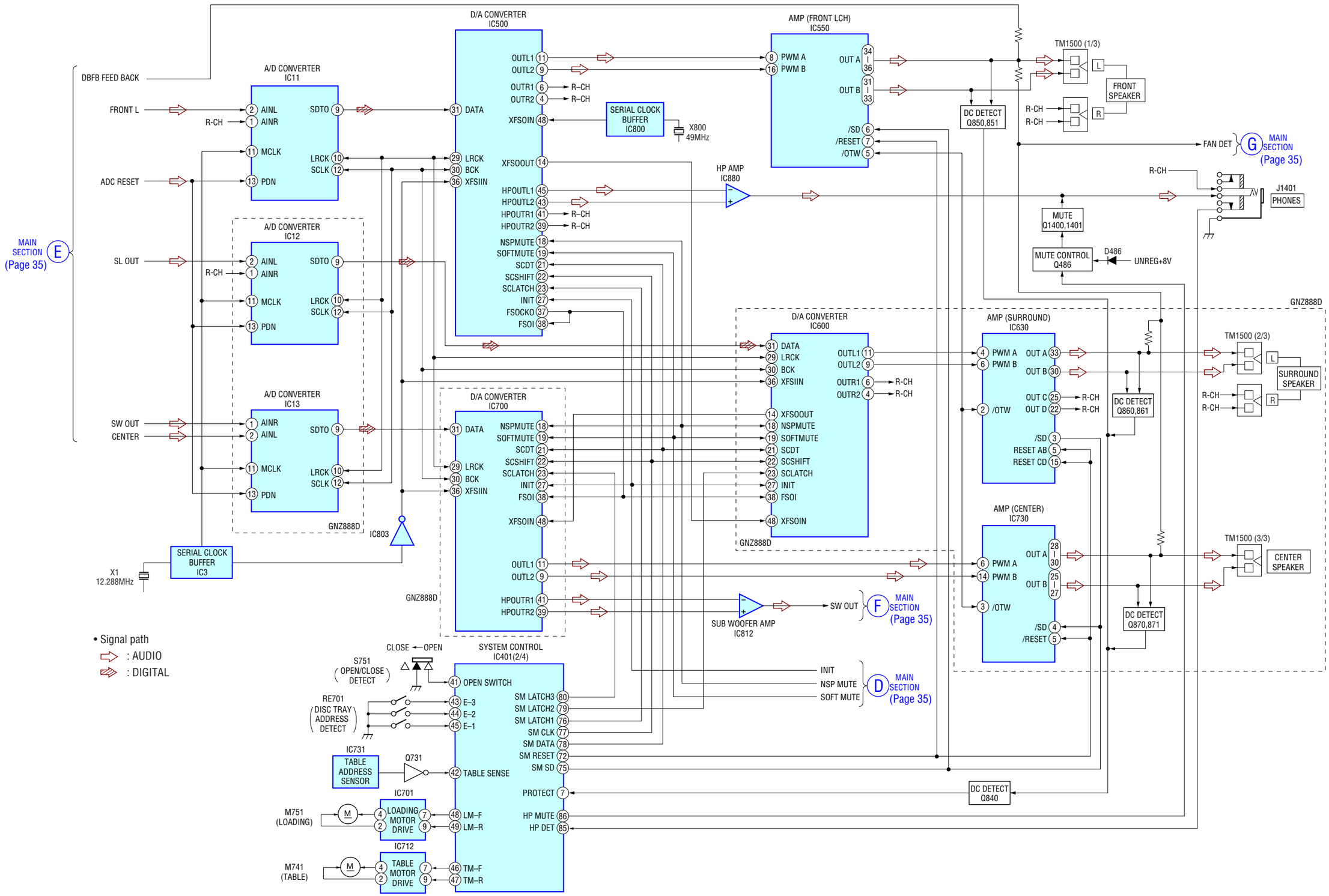


- Signal Path
  - : AUDIO
  - : VIDEO
  - : COMPONENT VIDEO
  - : DIGITAL

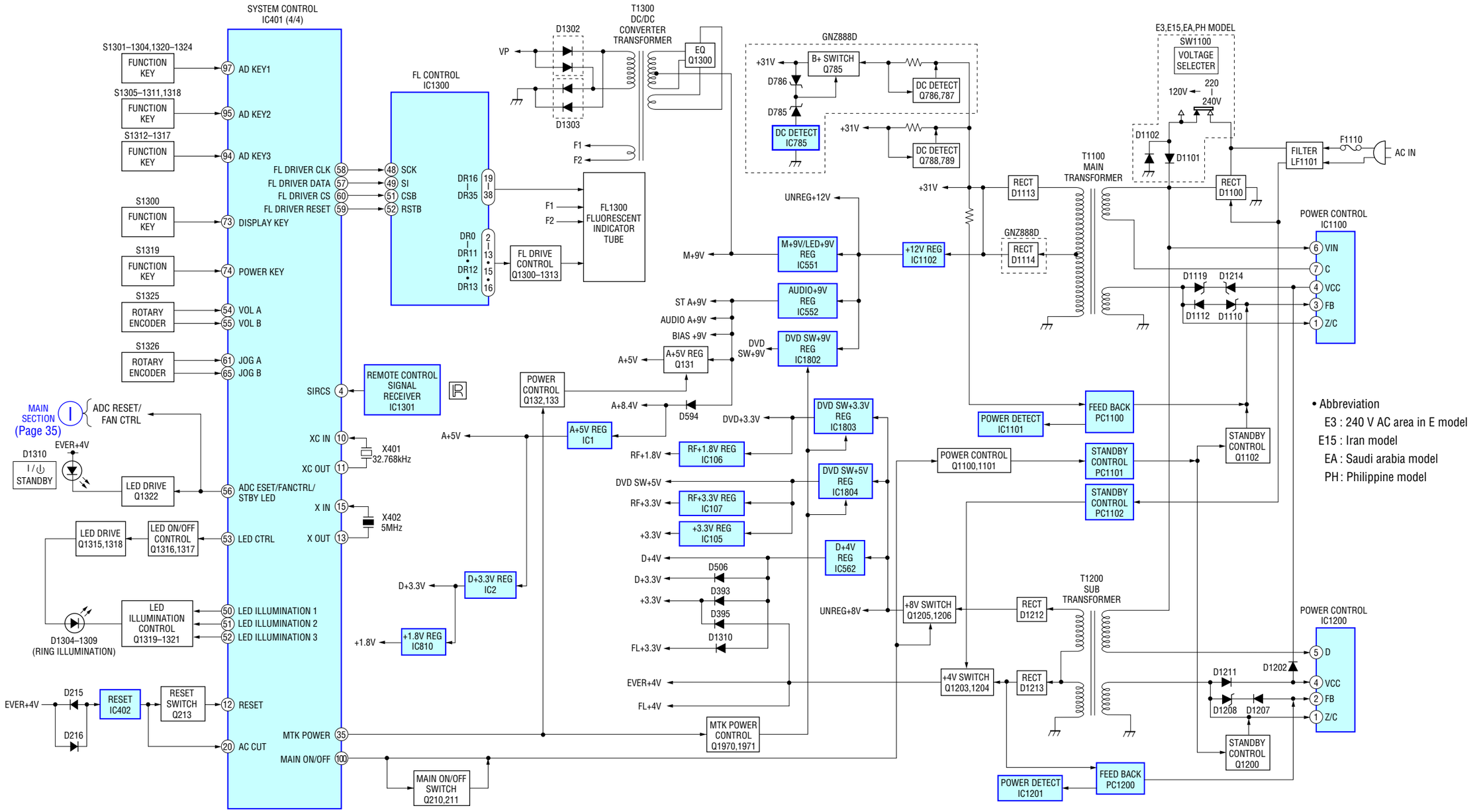
6-4. BLOCK DIAGRAM — MAIN SECTION —



6-5. BLOCK DIAGRAM — AUDIO SECTION —



6-6. BLOCK DIAGRAM — FUNCTION/POWER SECTION —



- Abbreviation
  - E3 : 240 V AC area in E model
  - E15 : Iran model
  - EA : Saudi arabia model
  - PH : Philippine model

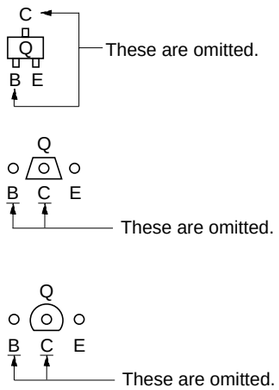
• Note For Printed Wiring Boards And Schematic Diagrams

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ▭ : Pattern from the side which enables seeing.
  (The other layer's patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.



UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- : nonflammable resistor.
- : panel designation.

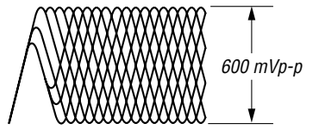
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ✻ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : AUDIO
  : TUNER
  : VIDEO
  : VIDEO (COMPONENT)
  : TAPE PLAY (DECK A)
  : TAPE PLAY (DECK B)
  : TAPE REC (DECK B)
  : DVD (AUDIO)
  : DVD (RF)
  : DVD (DIGITAL)
- Abbreviation
  E3 : 240 V AC area in E model
  E12 : 220-240 V AC area in E model
  E13 : Russian model
  E15 : Iran model
  EA : Saudi arabia model
  PH : Philippine model
  SP : Singapore model
  TH : Thai model

• Waveforms

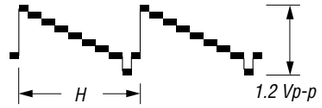
— DMB16 BOARD —

① IC102 ⑥ (DVDRFIP)



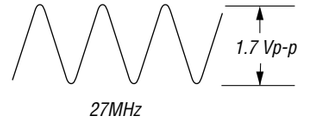
200 mV/DIV, 100 nsec/DIV

④ IC102 ⑱ (YUV1)



500 mV/DIV, 20 µsec/DIV

⑦ IC102 ㉘ (XTALI)

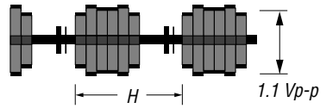


500 mV/DIV, 20 µsec/DIV

② IC102 ㉛ (FED)

100 mV/DIV, 1 msec/DIV

⑤ IC102 ⑲ (YUV2)

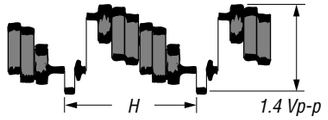


500 mV/DIV, 20 µsec/DIV

③ IC102 ㉜ (TEO)

500 mV/DIV, 1 msec/DIV

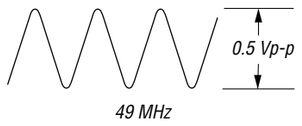
⑥ IC102 ⑲ (YUV3)



500 mV/DIV, 20 µsec/DIV

— SMASTER BOARD —

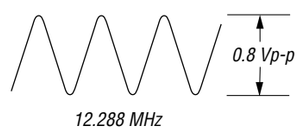
① IC800 ④



0.2 V/DIV, 0.1 µsec/DIV

— ADC BOARD —

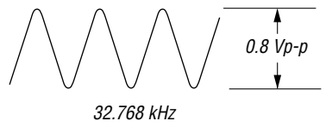
① IC3 ⑥



0.5 V/DIV, 0.1 µsec/DIV

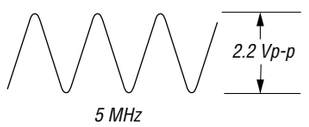
— MAIN BOARD —

① IC401 ⑩ (XC-IN)



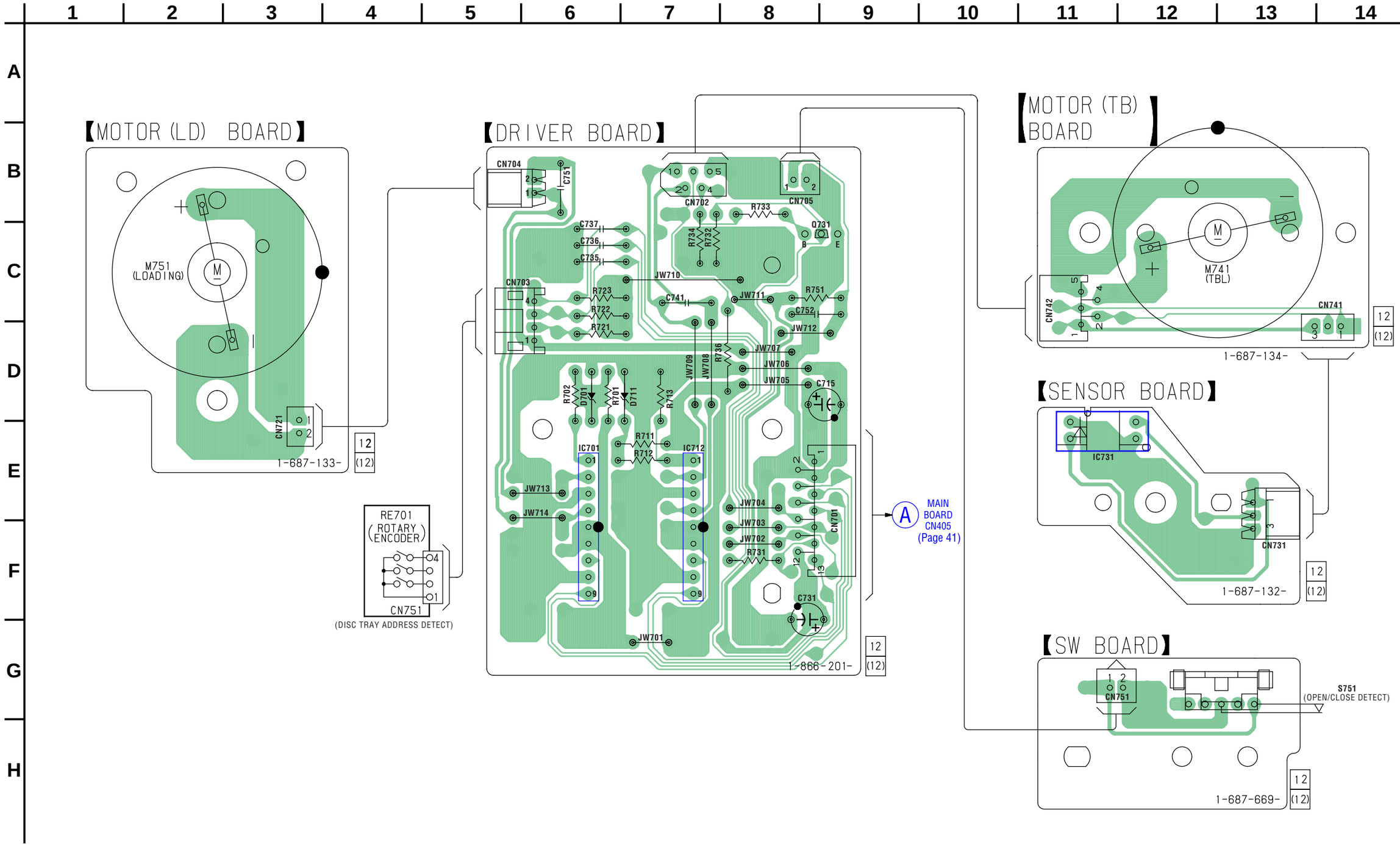
0.5 V/DIV, 20 µsec/DIV

② IC401 ⑬ (X OUT)

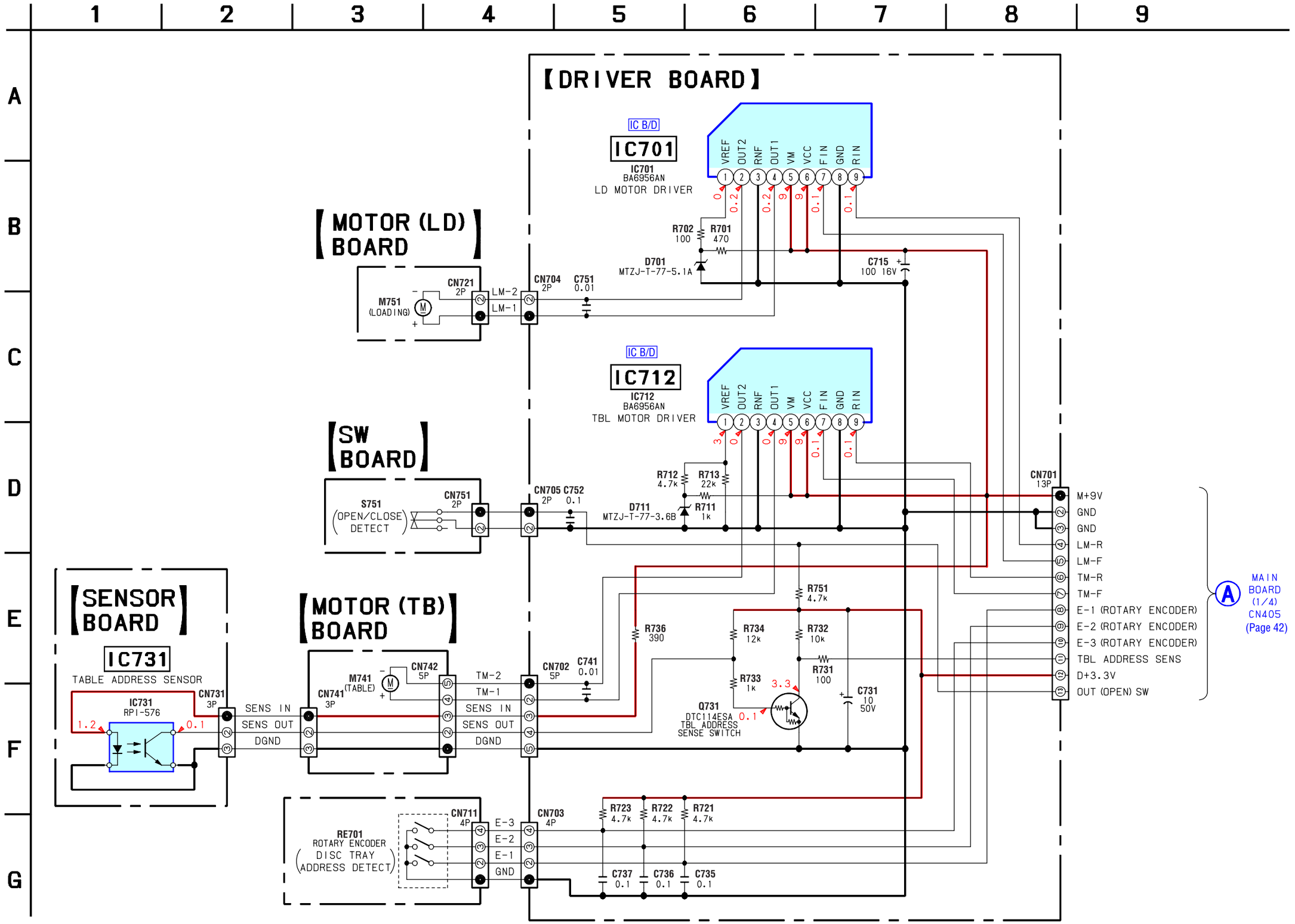


1 V/DIV, 0.1 µsec/DIV

6-7. PRINTED WIRING BOARDS — DRIVER SECTION — • Refer to page 32 for Circuit Boards Location. : Uses unleaded solder.



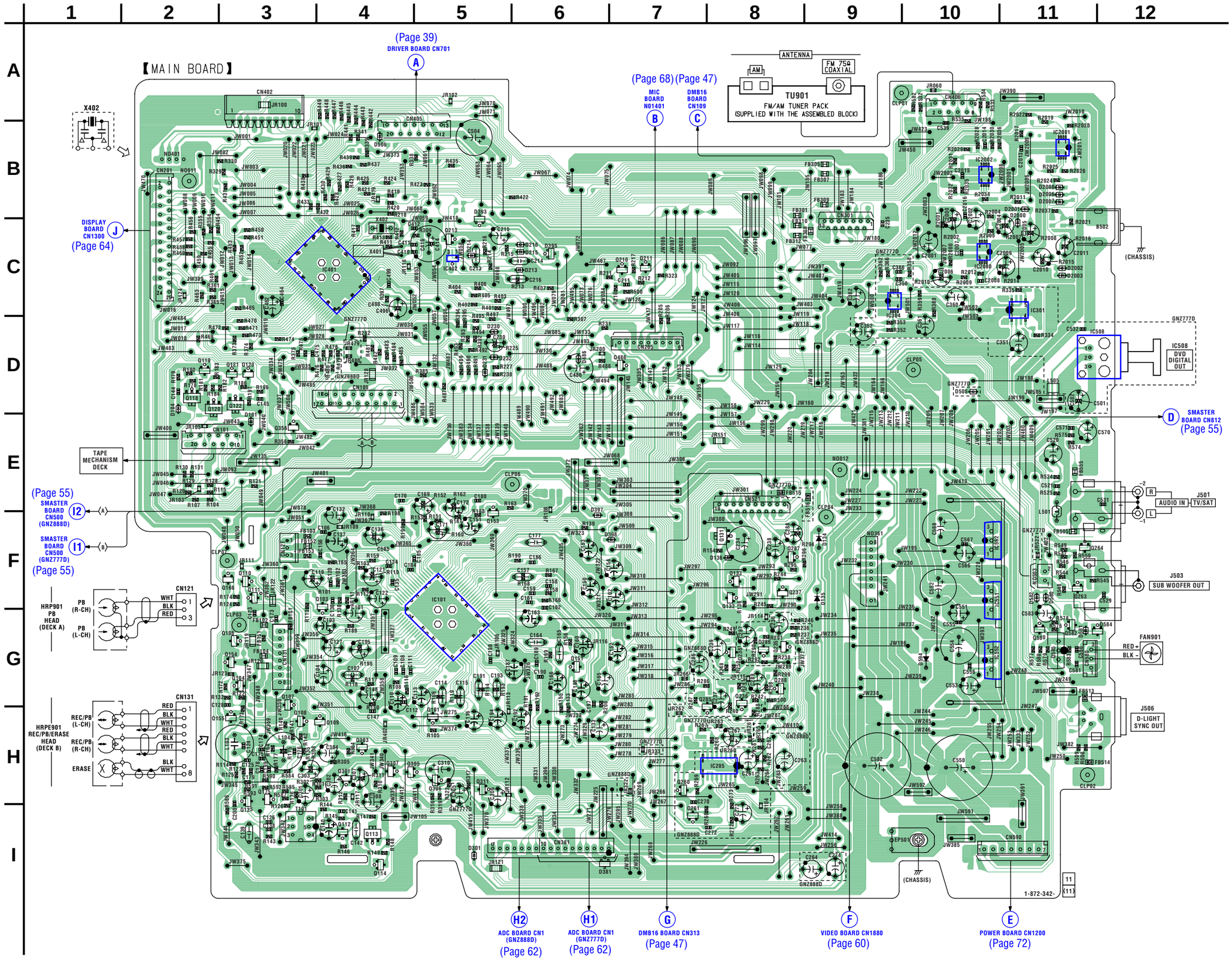
6-8. SCHEMATIC DIAGRAM — DRIVER SECTION — • Refer to page 74 for IC Block Diagrams.



• Refer to page 46 for Semiconductor Location.

6-9. PRINTED WIRING BOARD — MAIN SECTION —

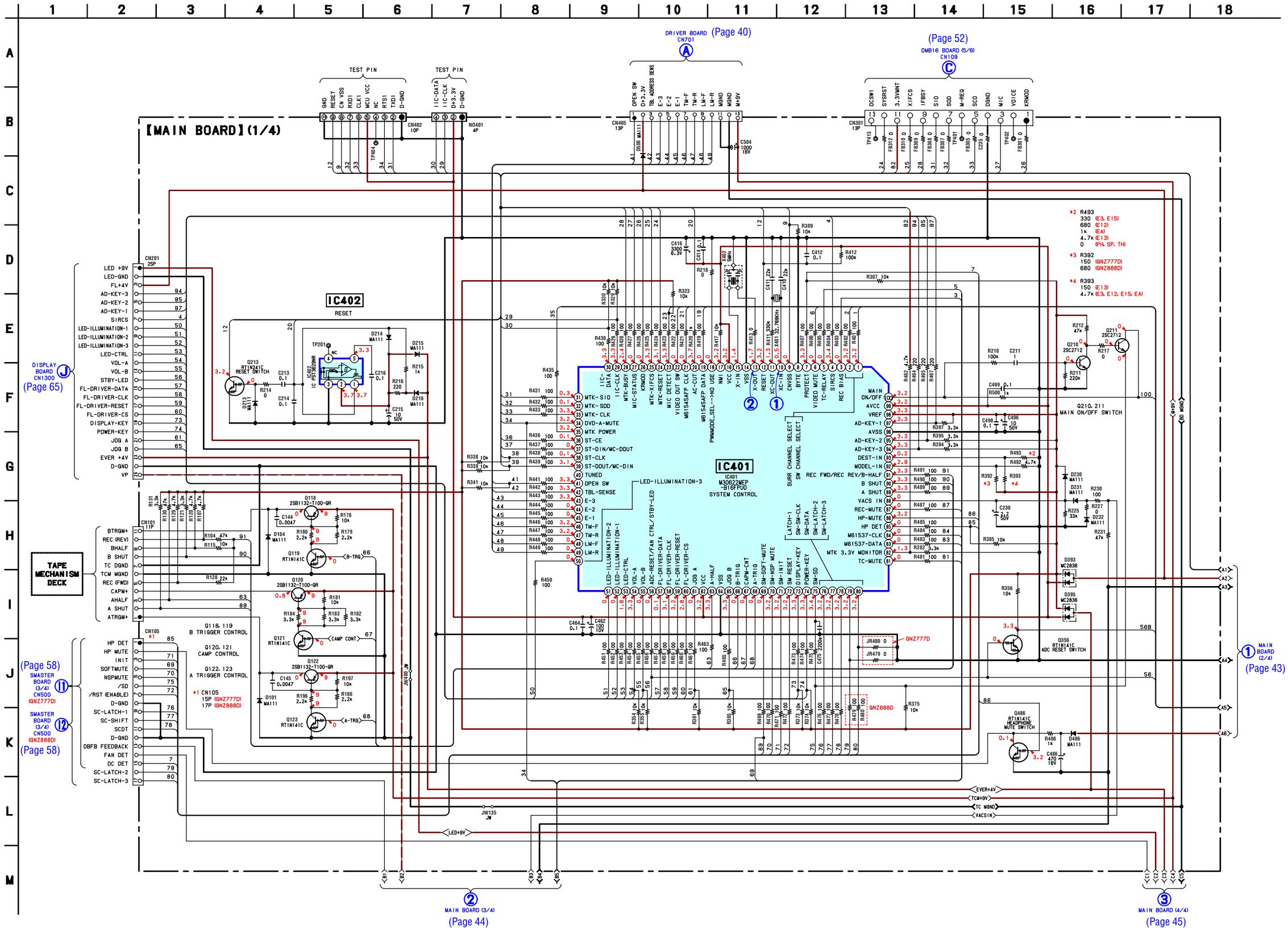
• Refer to page 32 for Circuit Boards Location. : Uses unleaded solder.



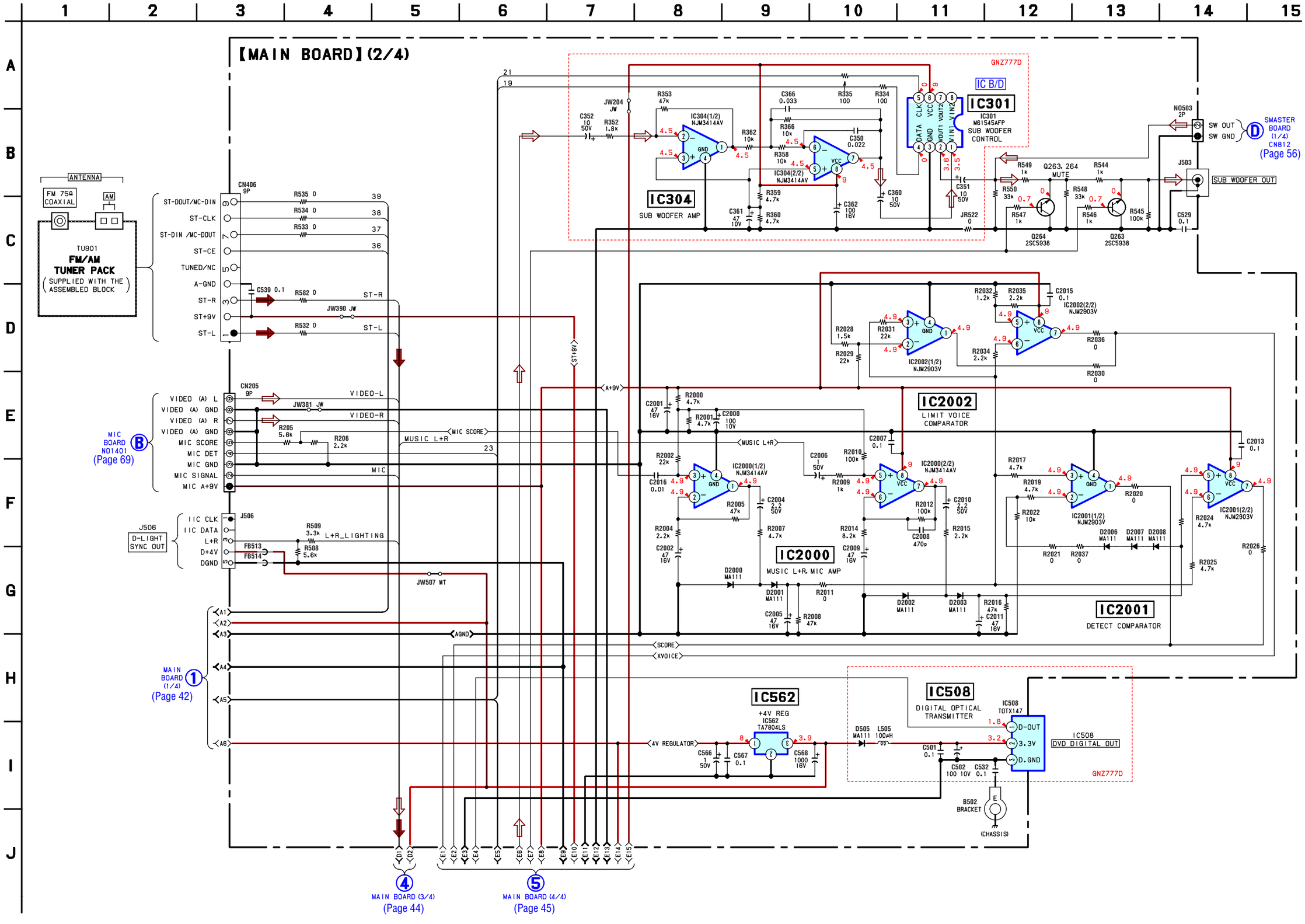
• Refer to page 38 for Waveforms.

6-10. SCHEMATIC DIAGRAM — MAIN SECTION (1/4) —

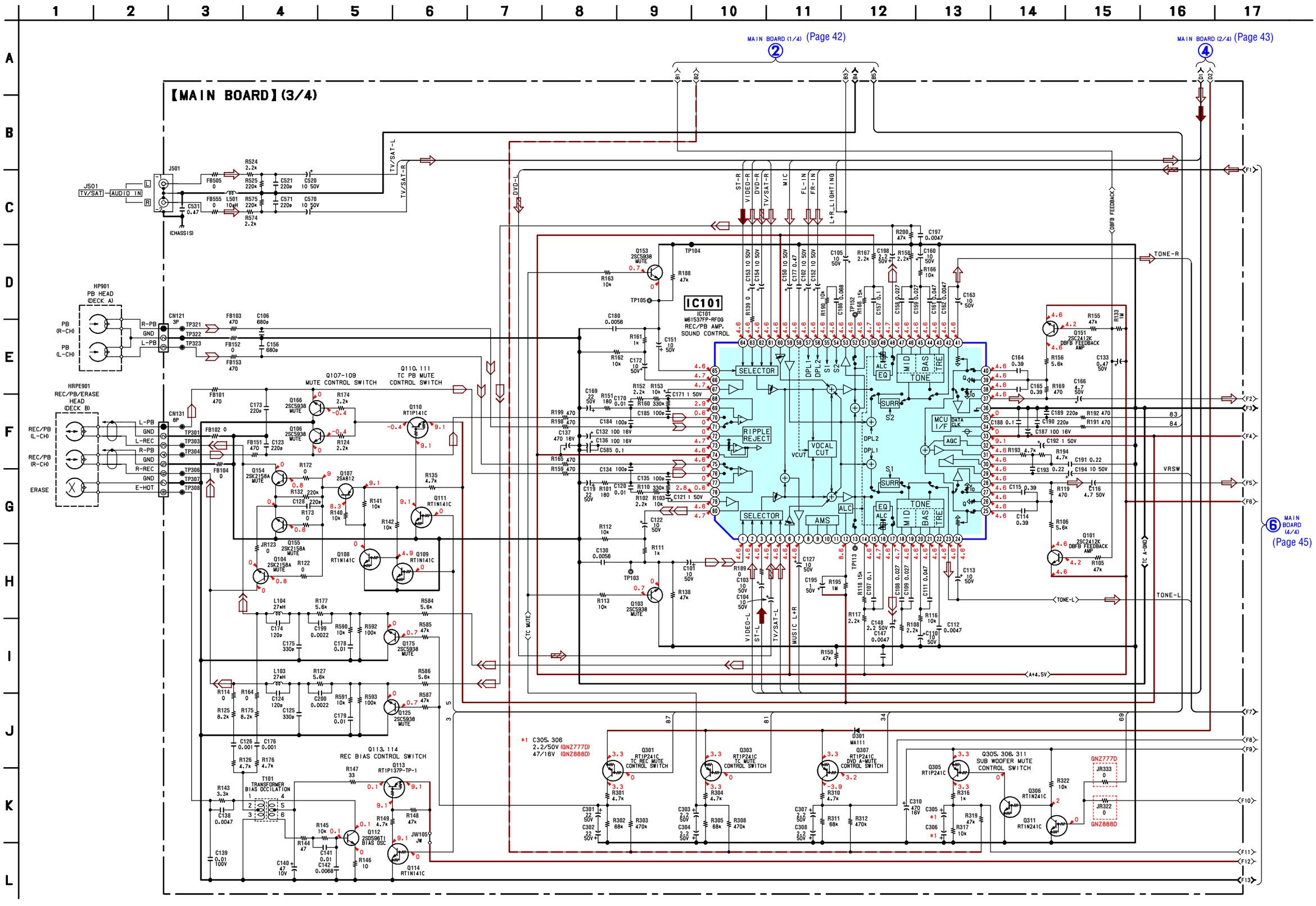
• Refer to page 80 for IC Pin Description of IC401.



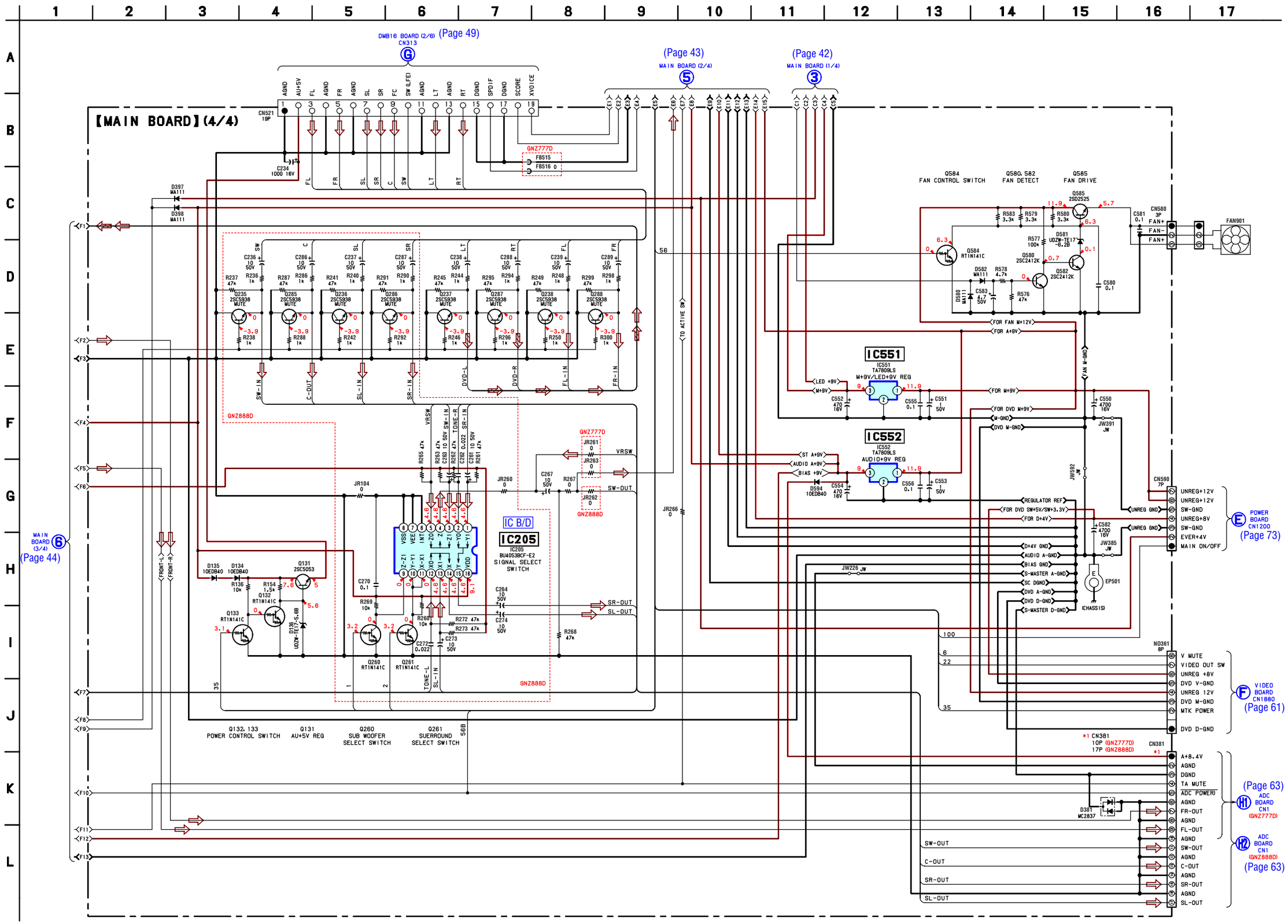
6-11. SCHEMATIC DIAGRAM — MAIN SECTION (2/4) — • Refer to page 74 for IC Block Diagrams.



6-12. SCHEMATIC DIAGRAM — MAIN SECTION (3/4) —



6-13. SCHEMATIC DIAGRAM — MAIN SECTION (4/4) — • Refer to page 74 for IC Block Diagrams.



6-14. PRINTED WIRING BOARD — DMB16 SECTION (1/2) —

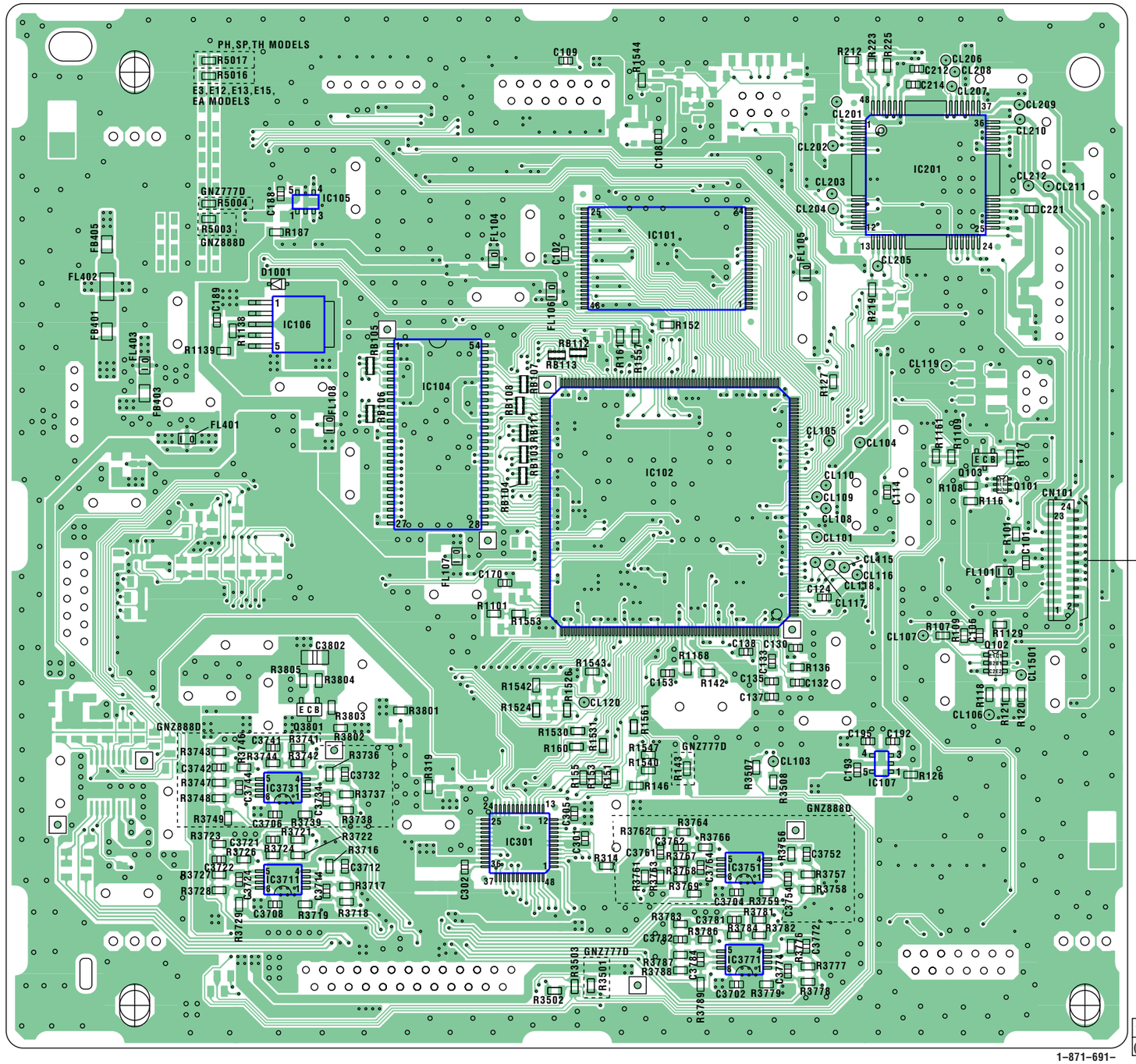
• Refer to page 32 for Circuit Boards Location.

: Uses unleaded solder.

• **Semiconductor Location (MAIN board)**

Ref. No.	Location	Ref. No.	Location
D101	E-3	Q107	G-3
D104	D-2	Q108	H-3
D134	F-9	Q109	H-4
D135	F-9	Q110	F-3
D136	F-8	Q111	F-3
D213	C-6	Q112	I-4
D214	C-5	Q113	I-4
D215	C-6	Q114	I-4
D216	C-6	Q118	D-2
D230	D-5	Q119	D-2
D231	D-5	Q120	D-2
D232	D-5	Q121	D-3
D301	I-5	Q122	D-3
D381	I-6	Q123	D-3
D393	B-5	Q125	H-3
D395	C-6	Q131	F-8
D397	F-6	Q132	F-7
D398	F-7	Q133	F-8
D486	D-6	Q151	G-6
D505	D-10	Q153	F-5
D506	B-4	Q154	G-3
D580	F-11	Q155	H-3
D581	G-11	Q166	F-3
D582	F-11	Q175	H-3
D594	G-10	Q210	C-7
D2000	C-11	Q211	C-7
D2001	B-11	Q213	C-5
D2002	C-11	Q235	G-8
D2003	C-11	Q236	G-8
D2006	B-11	Q237	F-8
D2007	B-11	Q238	G-8
D2008	B-11	Q260	H-7
		Q261	I-7
IC101	F-5	Q263	F-11
IC205	H-8	Q264	F-11
IC301	C-11	Q285	G-7
IC304	C-9	Q286	G-8
IC401	C-4	Q287	F-8
IC402	C-5	Q288	G-8
IC508	D-11	Q301	H-4
IC551	F-10	Q303	H-4
IC552	G-10	Q305	H-4
IC562	F-10	Q306	H-5
IC2000	C-10	Q307	H-4
IC2001	B-11	Q311	H-5
IC2002	B-10	Q356	E-3
		Q486	D-7
Q101	H-5	Q580	G-11
Q103	F-4	Q582	G-11
Q104	G-3	Q584	G-12
Q106	G-3	Q585	G-11

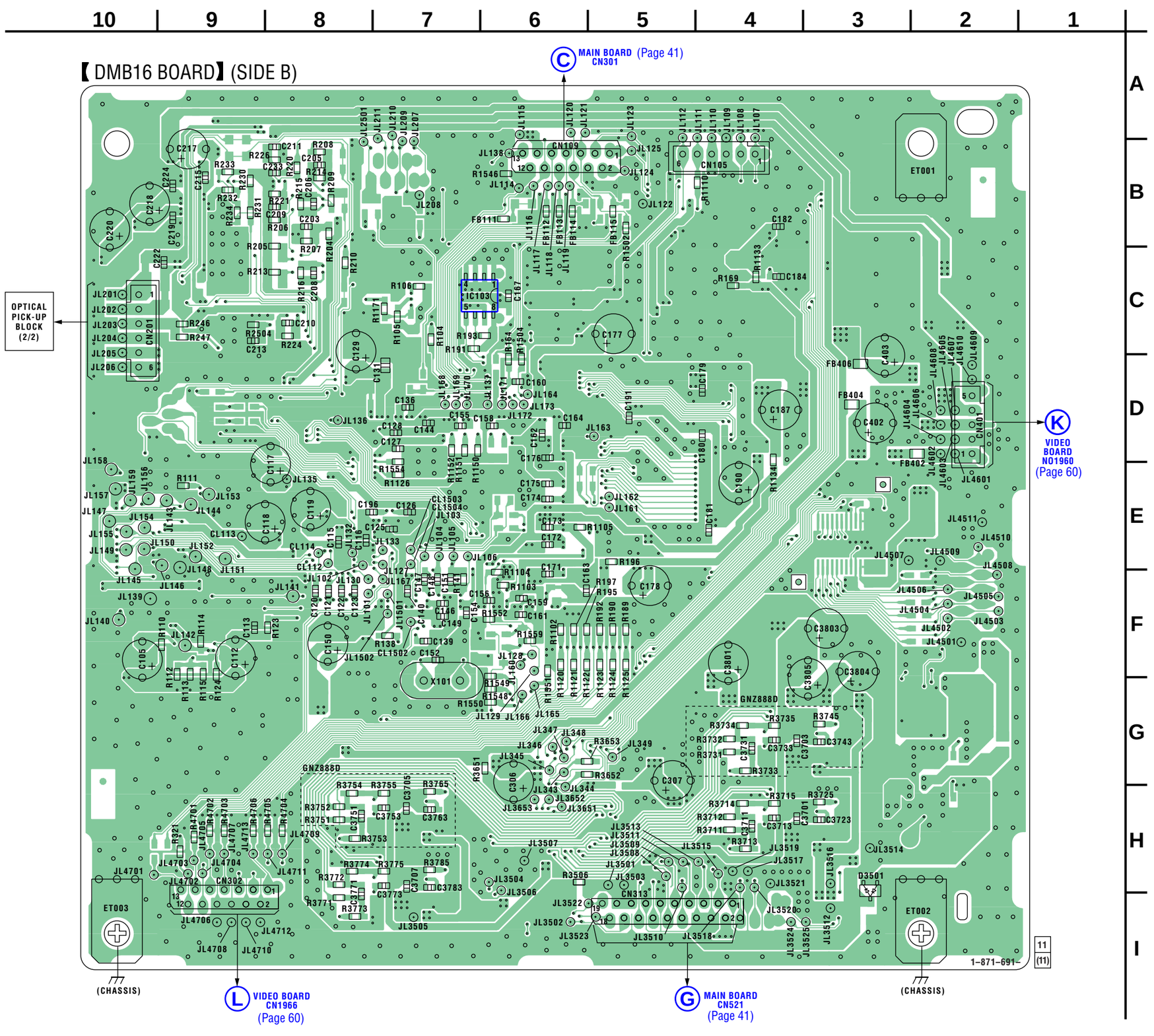
【DMB16 BOARD 】(SIDE A)



When IC103 on the DMB16 board are damaged, exchange the new DMB16 board for the DMB16 board which IC damaged.

6-15. PRINTED WIRING BOARD — DMB16 SECTION (2/2) — • Refer to page 32 for Circuit Boards Location. : Uses unleaded solder.

【DMB16 BOARD】(SIDE B)

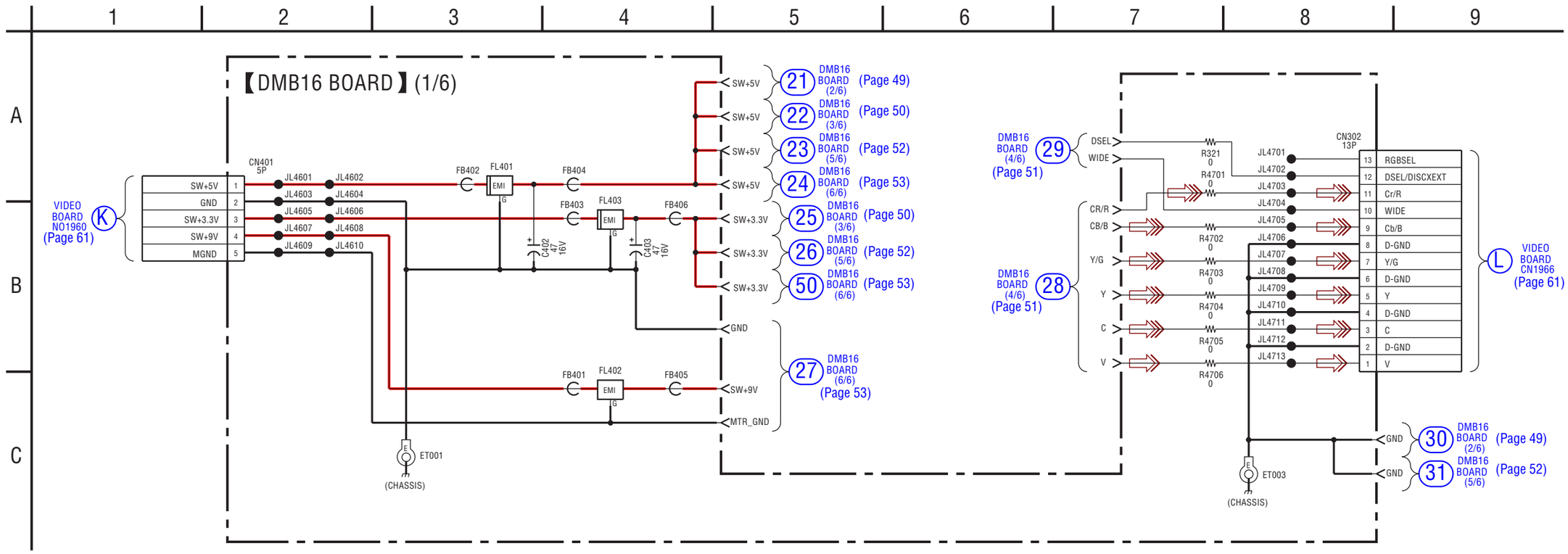


• **Semiconductor Location**

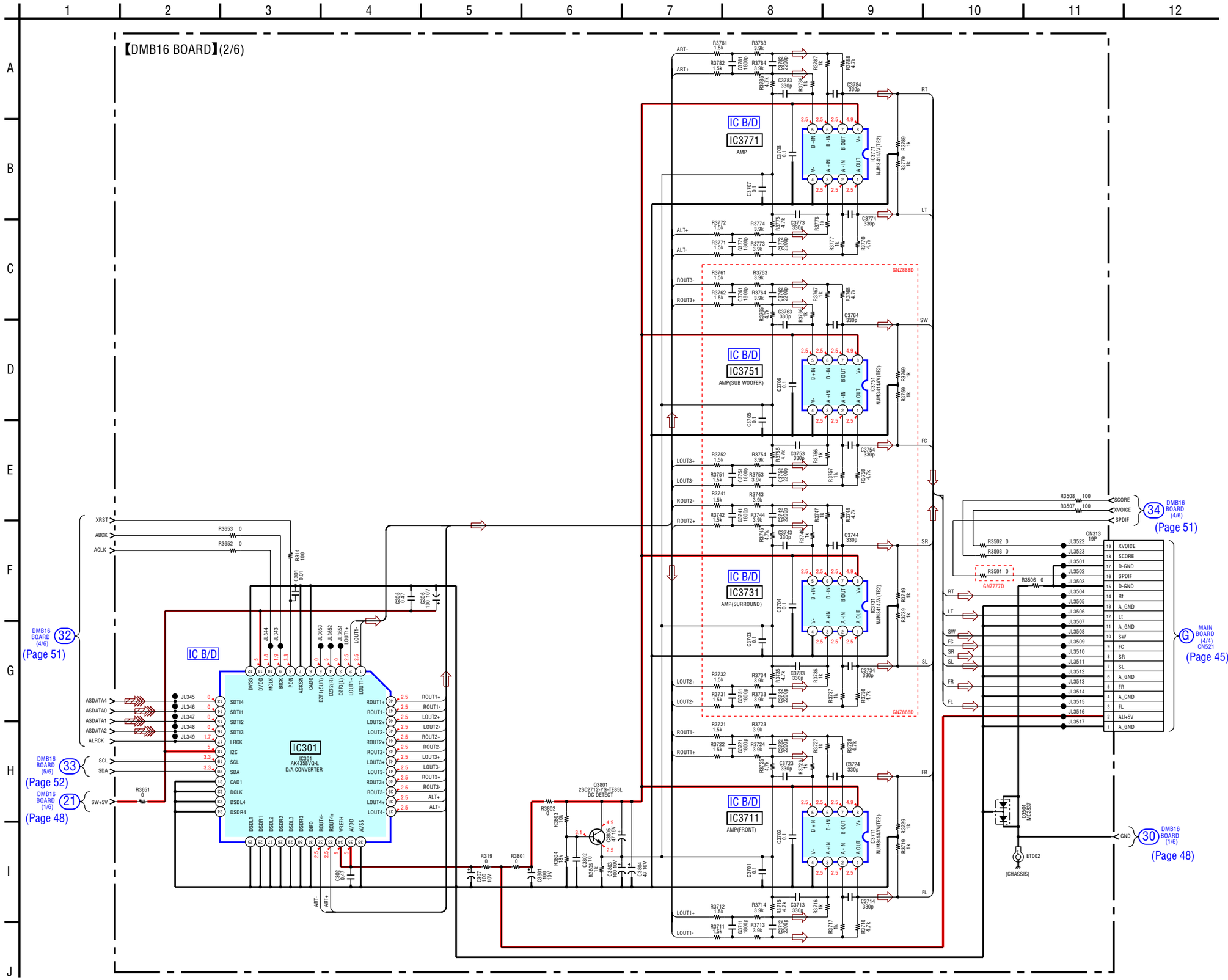
Ref. No.	Location
D1001	D-4
(D3501)	H-3
IC101	C-7
IC102	E-7
(IC103)	C-7
IC104	D-5
IC105	C-4
IC106	D-4
IC107	G-8
IC201	B-9
IC301	H-5
IC3711	G-4
IC3731	G-4
IC3751	H-7
IC3771	H-7
Q101	E-9
Q102	F-9
Q103	E-9
Q3801	G-4

( ): SIDE B

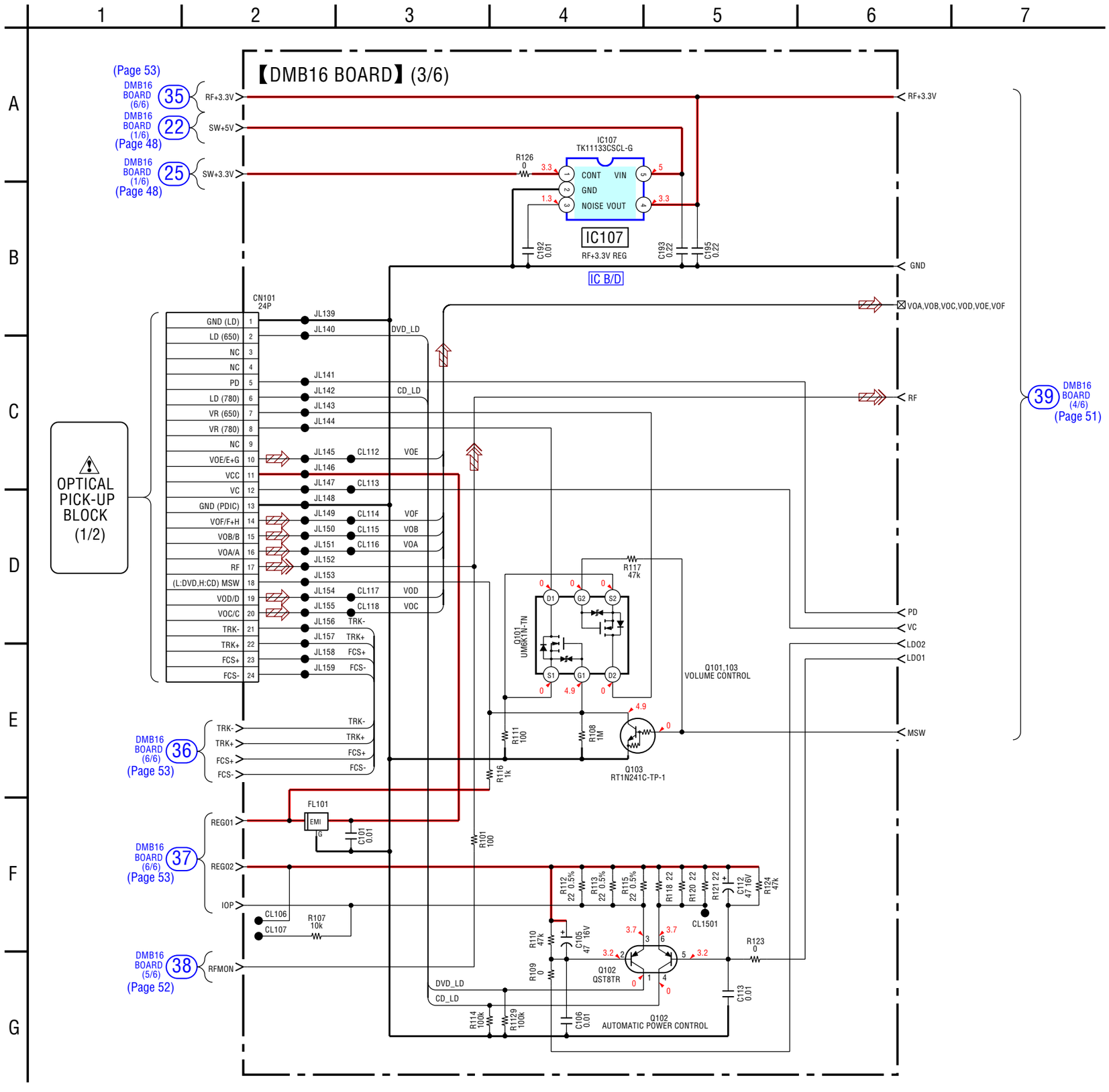
6-16. SCHEMATIC DIAGRAM — DMB16 SECTION (1/6) —



6-17. SCHEMATIC DIAGRAM — DMB16 SECTION (2/6) — • Refer to page 74 for IC Block Diagrams.

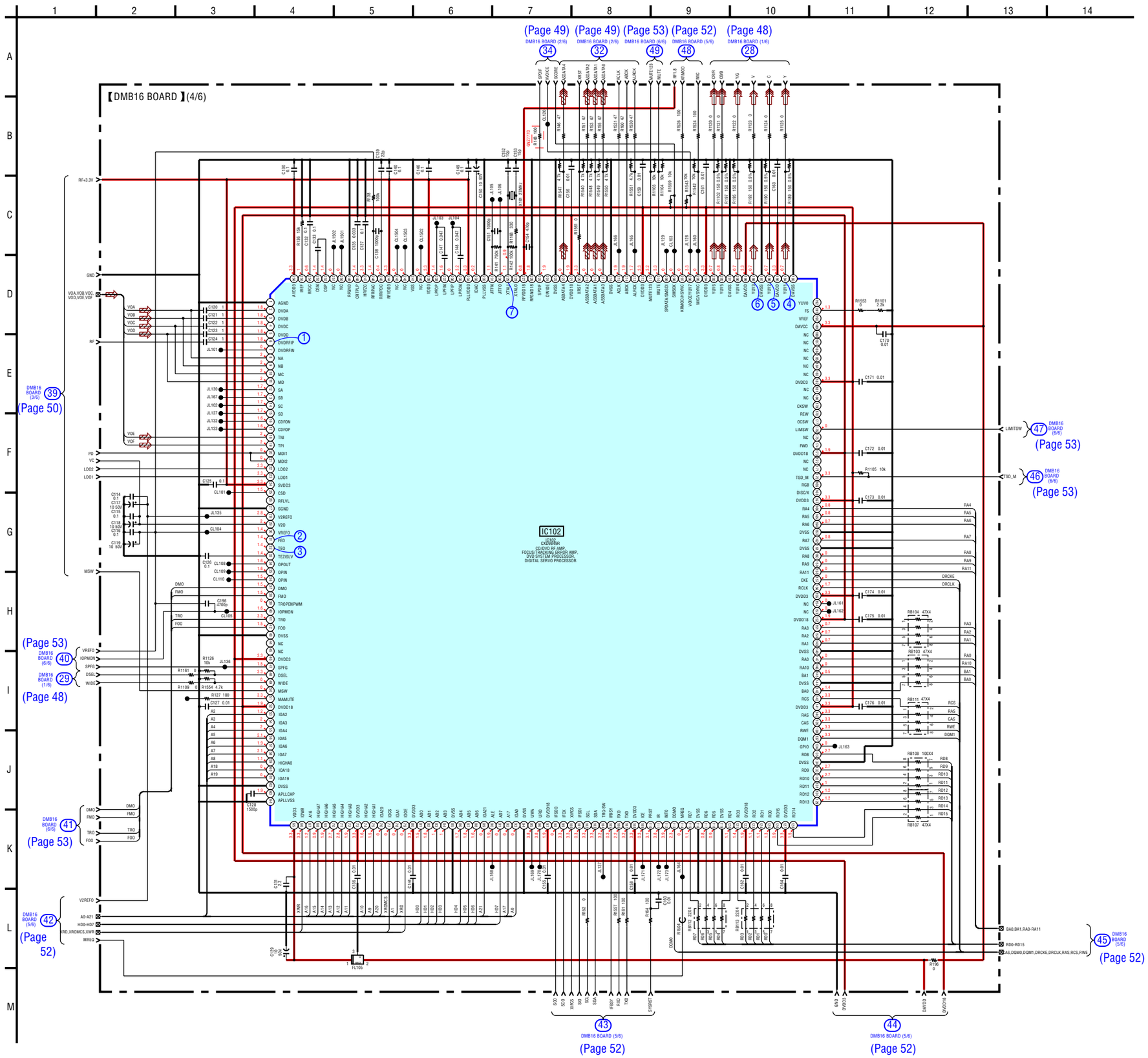


6-18. SCHEMATIC DIAGRAM — DMB16 SECTION (3/6) — • Refer to page 74 for IC Block Diagrams.



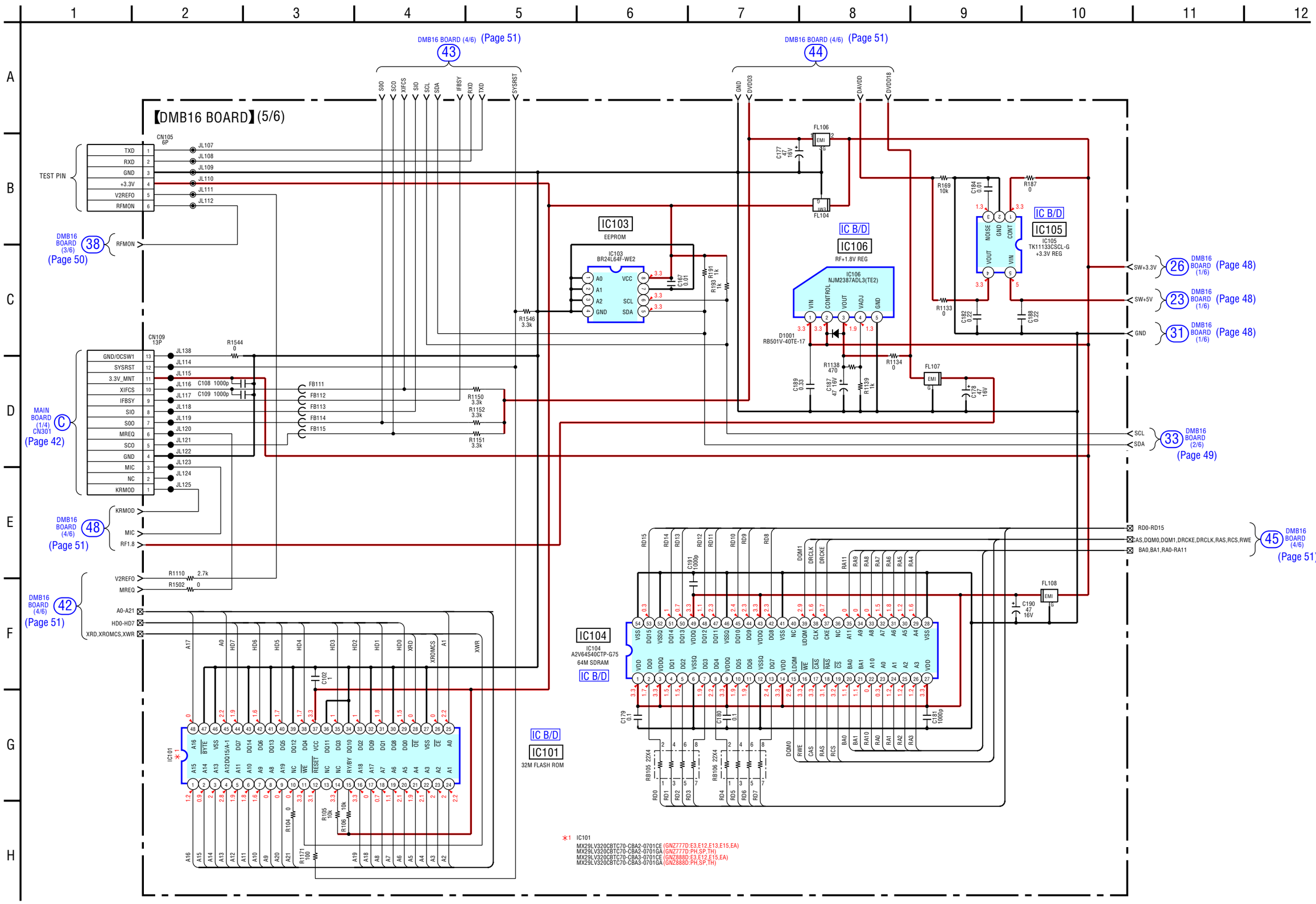
6-19. SCHEMATIC DIAGRAM — DMB16 SECTION (4/6) —

• Refer to page 38 for Waveforms.
• Refer to page 83 for IC Pin Description of IC102.

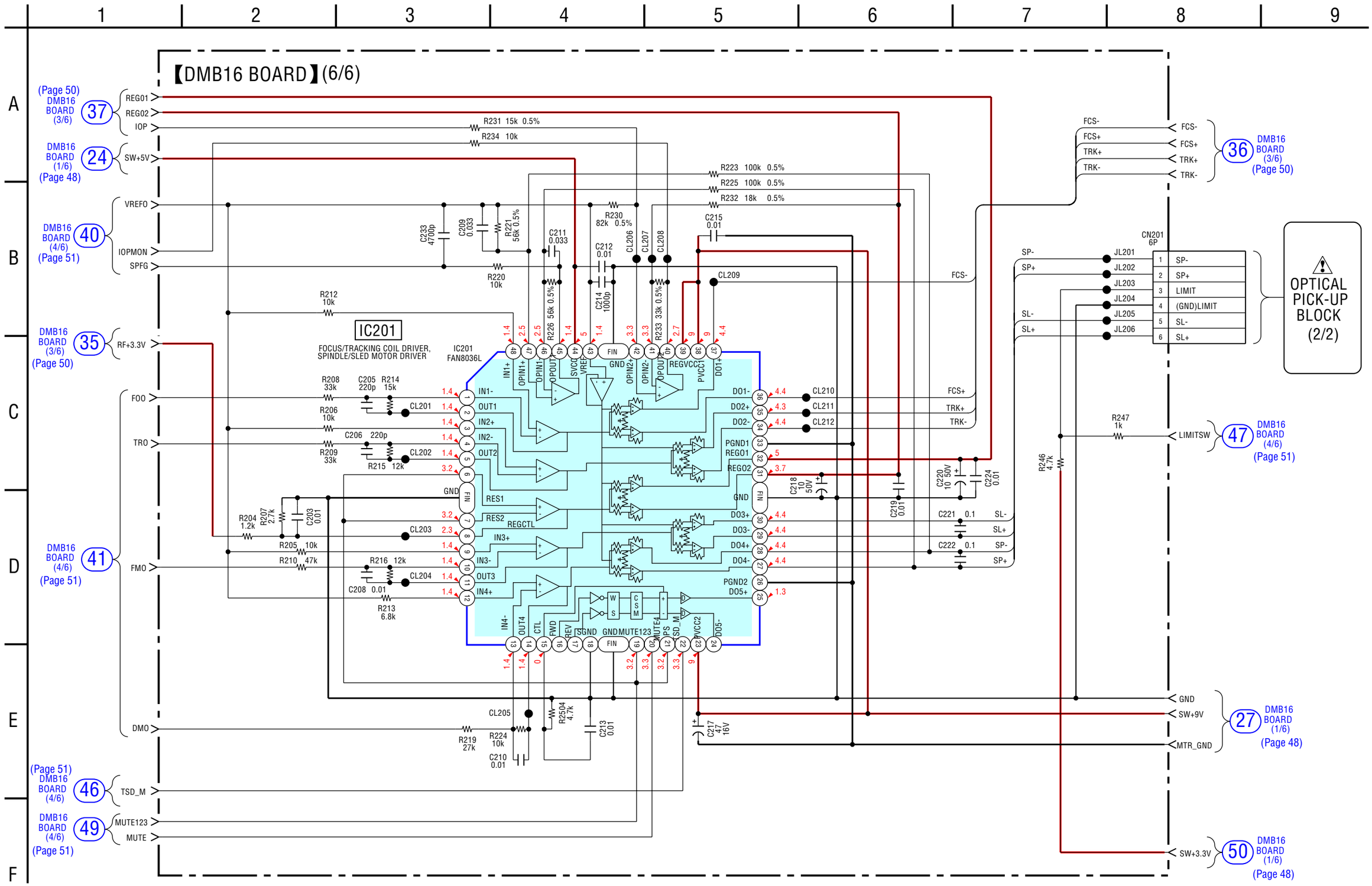

【DMB16 BOARD 】(4/6)
IC102
CXD9841R
CD/DVD RF AMP, FOCUS/TRACKING ERROR AMP, DVD SYSTEM PROCESSOR, DIGITAL SERVO PROCESSOR
(Page 49) DMB16 BOARD (2/6)
(Page 49) DMB16 BOARD (2/6)
(Page 53) DMB16 BOARD (6/6)
(Page 52) DMB16 BOARD (5/6)
(Page 48) DMB16 BOARD (1/6)
(Page 50) DMB16 BOARD (3/6)
(Page 53) DMB16 BOARD (6/6)
(Page 53) DMB16 BOARD (6/6)
(Page 53) DMB16 BOARD (6/6)
(Page 48) DMB16 BOARD (1/6)
(Page 53) DMB16 BOARD (6/6)
(Page 52) DMB16 BOARD (5/6)
(Page 52) DMB16 BOARD (5/6)
(Page 52) DMB16 BOARD (5/6)
(Page 52) DMB16 BOARD (5/6)

When IC103 on the DMB16 board are damaged, exchange the new DMB16 board for the DMB16 board which IC damaged.

6-20. SCHEMATIC DIAGRAM — DMB16 SECTION (5/6) — • Refer to page 74 for IC Block Diagrams.



6-21. SCHEMATIC DIAGRAM — DMB16 SECTION (6/6) —



6-22. PRINTED WIRING BOARD — SMASTER SECTION (1/2) —

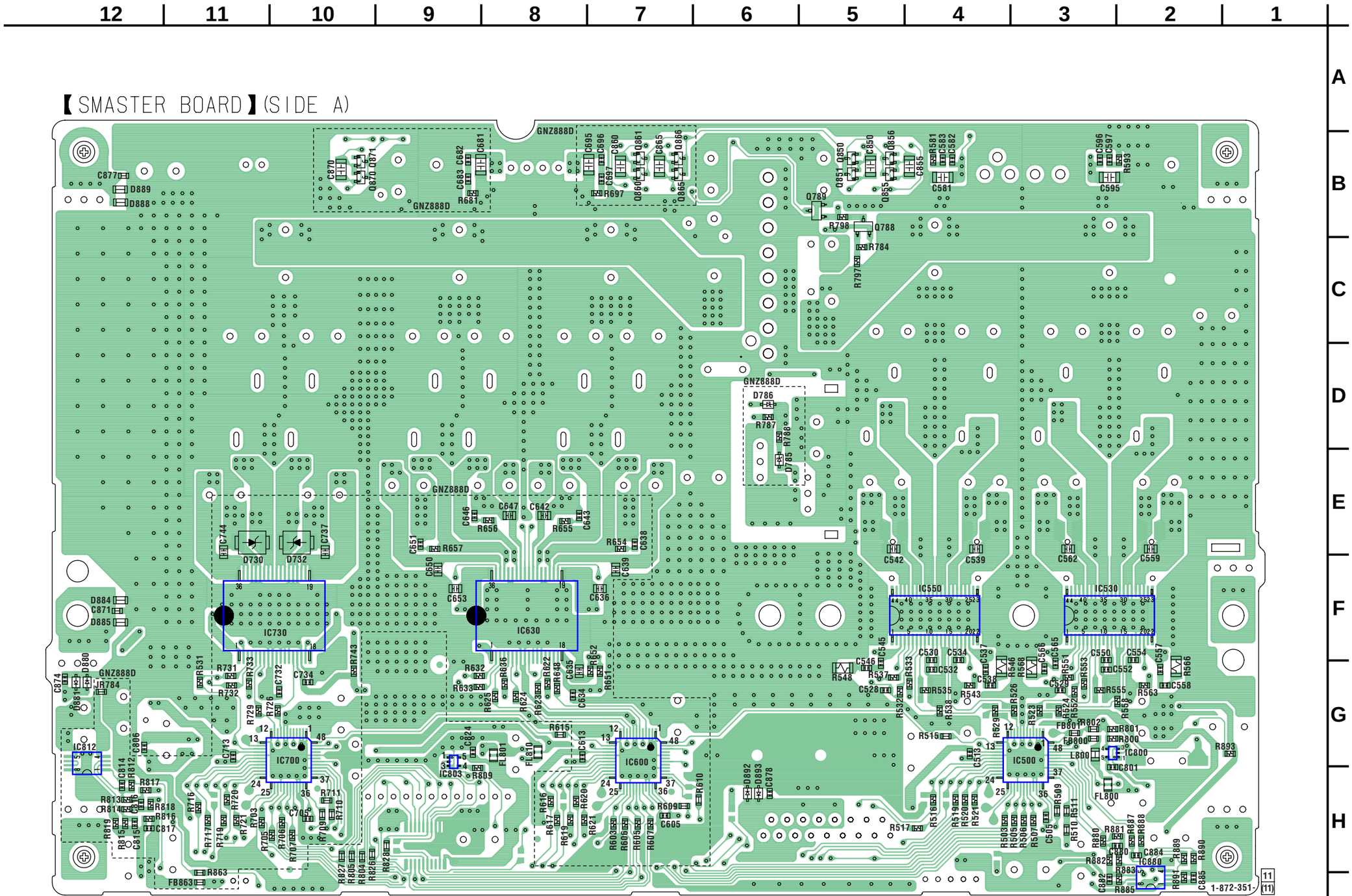
• Refer to page 32 for Circuit Boards Location.

: Uses unleaded solder.

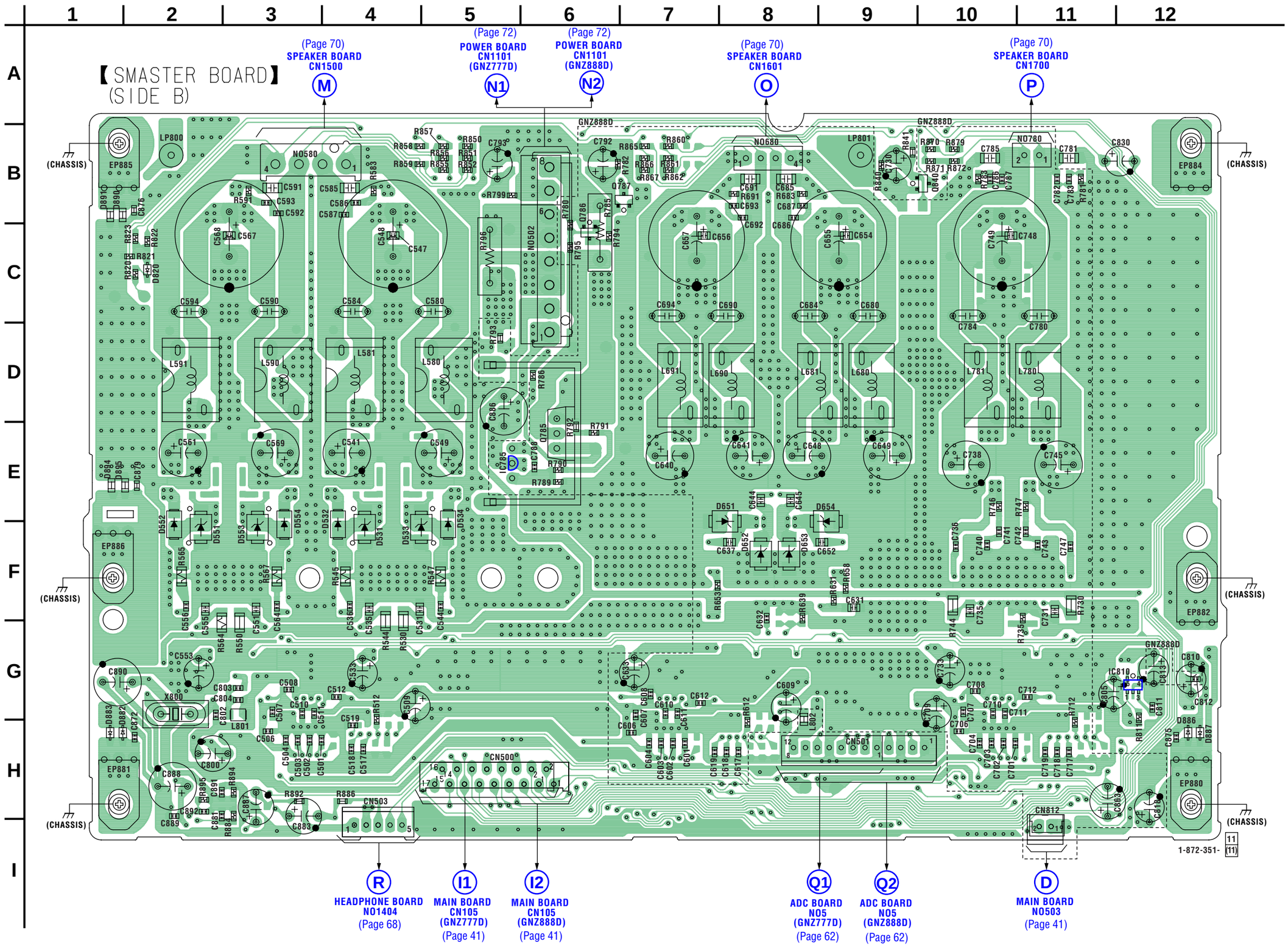
• **Semiconductor Location**

Ref. No.	Location
(D531)	F-4
(D532)	F-4
(D533)	F-4
(D534)	F-5
(D551)	F-2
(D552)	F-2
(D553)	F-3
(D554)	F-3
(D651)	E-8
(D652)	F-8
(D653)	F-8
(D654)	E-9
D730	F-11
D732	F-10
D785	E-6
D786	D-6
(D820)	C-2
D880	G-12
D881	G-12
(D882)	H-1
(D883)	H-1
(D886)	G-12
(D887)	G-12
D892	H-6
D893	H-6
IC500	G-3
IC530	F-3
IC550	F-4
IC600	G-7
IC630	F-8
IC700	G-10
IC730	F-10
(IC785)	E-5
IC800	G-2
IC803	H-9
(IC810)	G-12
IC812	G-12
IC880	H-2
(Q785)	E-6
(Q786)	E-6
(Q787)	B-7
Q788	B-5
Q789	B-5
(Q840)	B-10
Q850	B-5
Q851	B-5
Q855	B-5
Q856	B-5
Q860	B-7
Q861	B-7
Q865	B-7
Q866	B-7
Q870	B-10
Q871	B-10

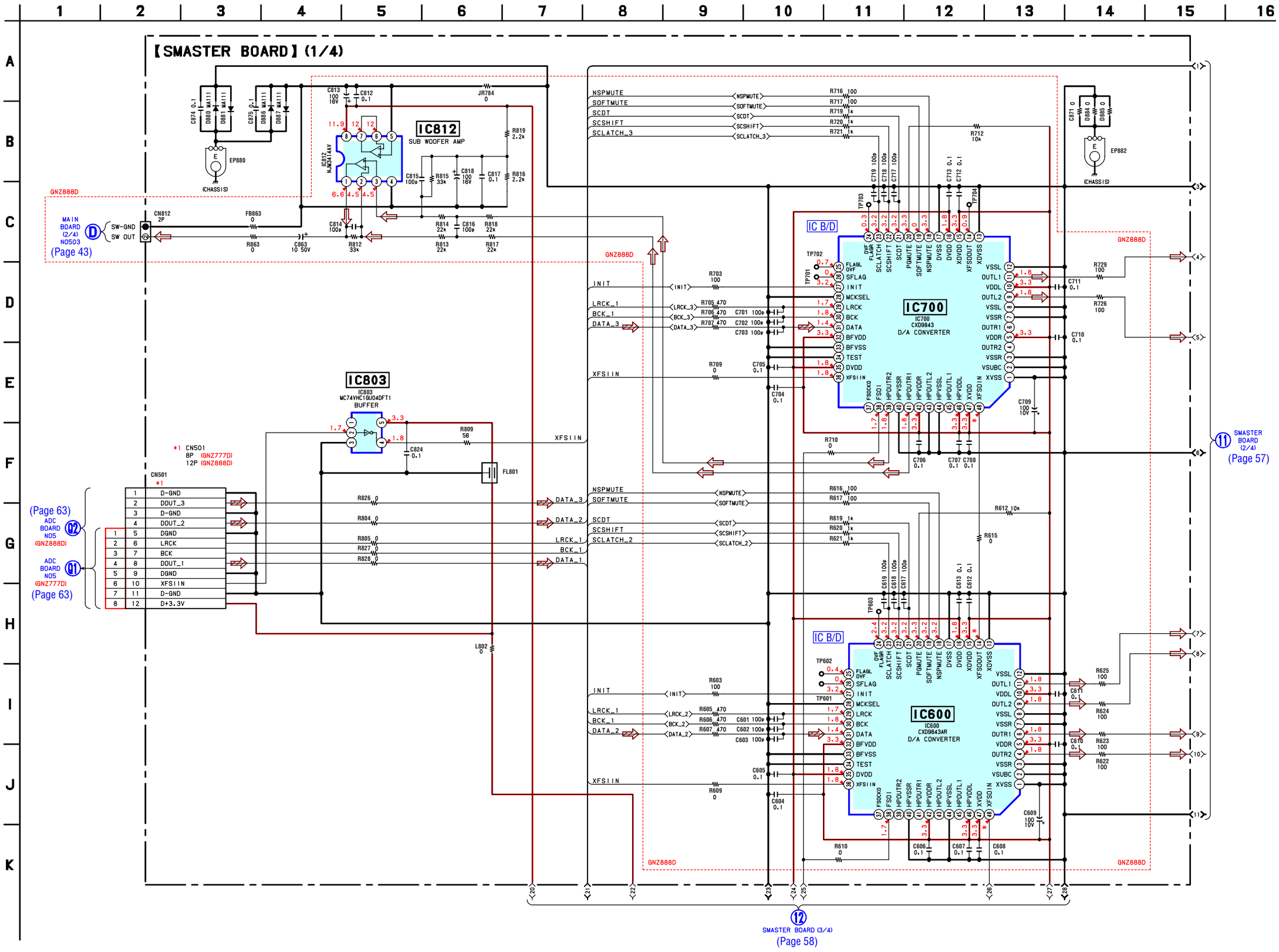
( ): SIDE B



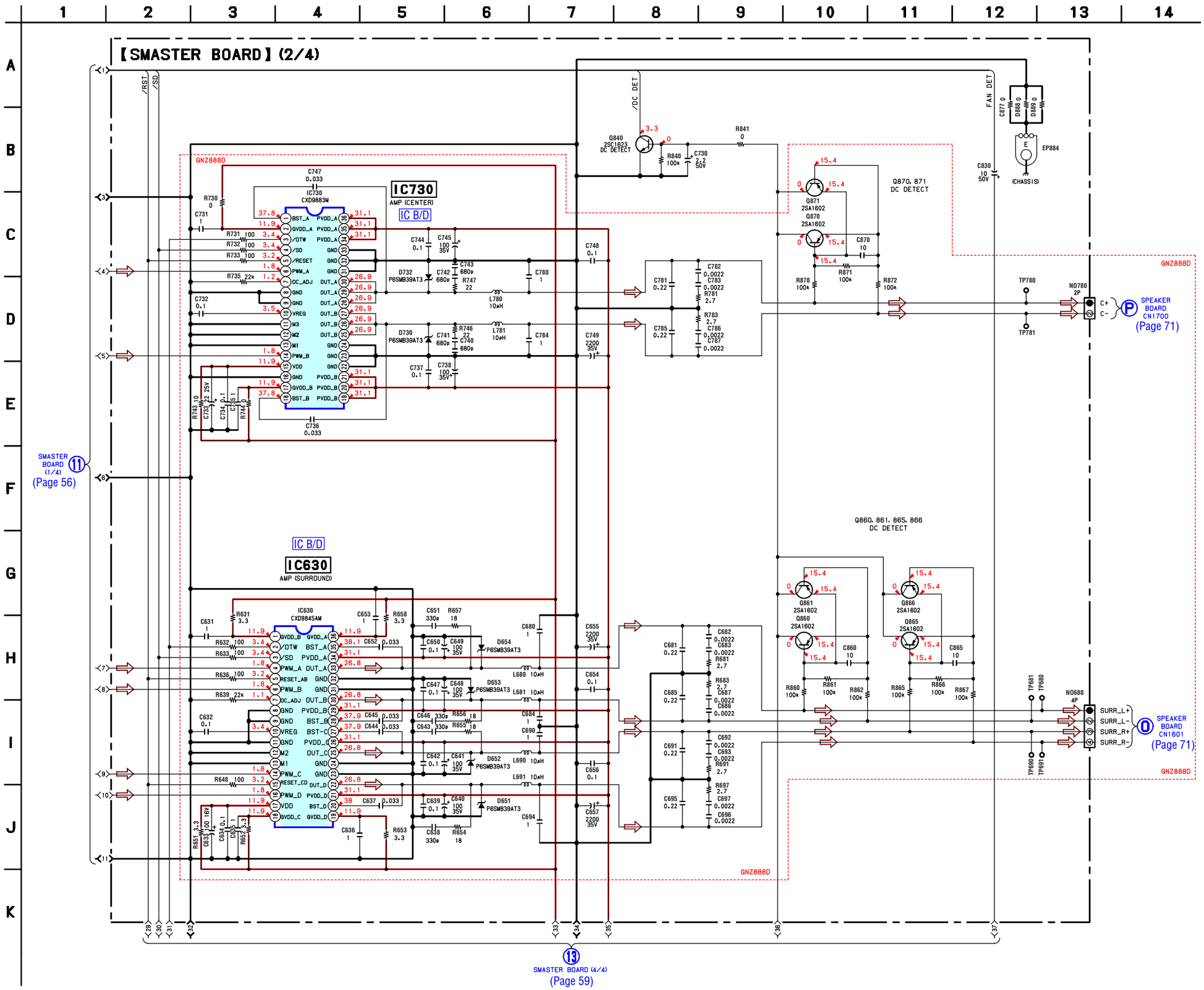
6-23. PRINTED WIRING BOARD — SMASTER SECTION (2/2) — **• Refer to page 32 for Circuit Boards Location.** **: Uses unleaded solder.**



6-24. SCHEMATIC DIAGRAM — SMASTER SECTION (1/4) — • Refer to page 76 for IC Block Diagrams.

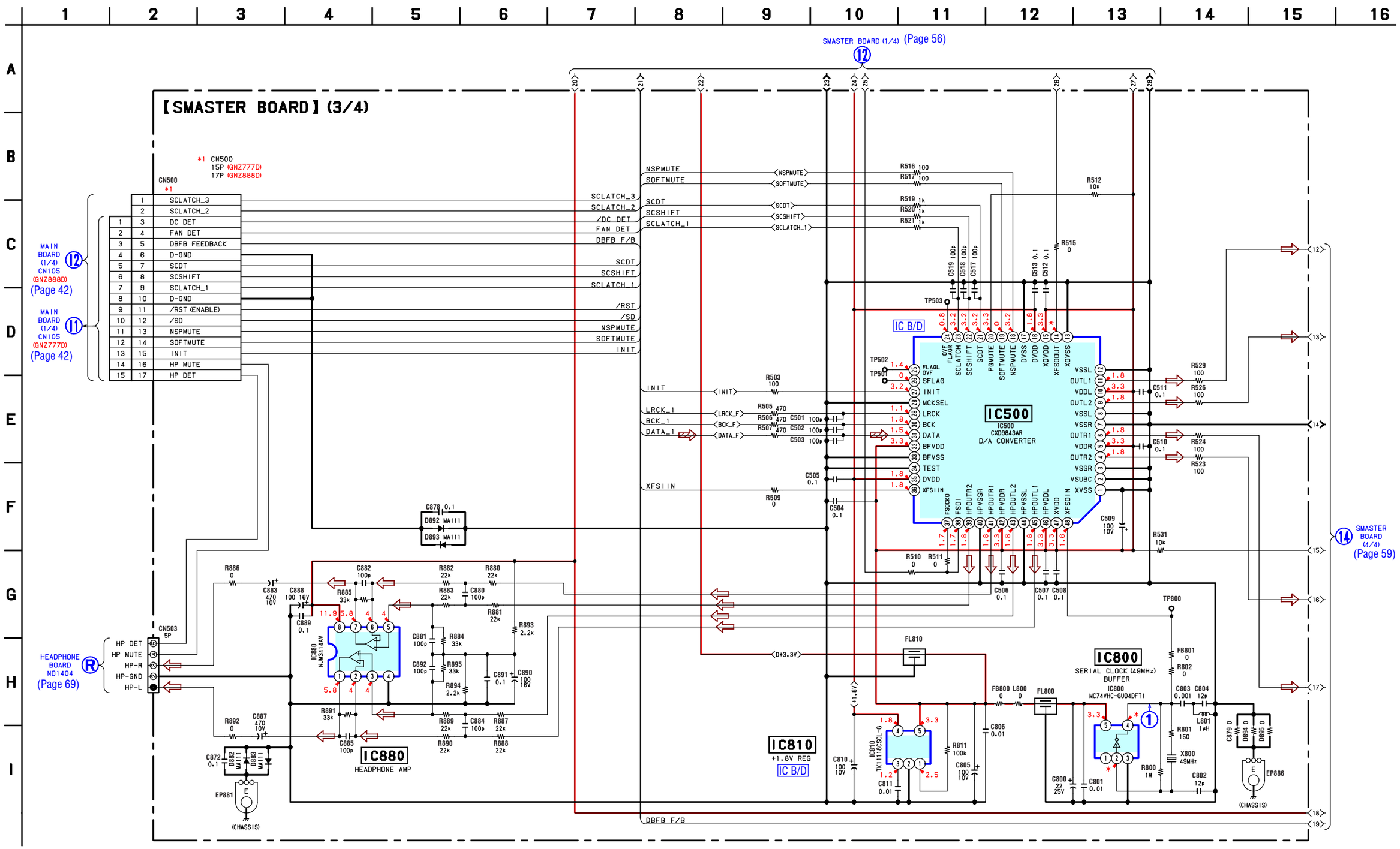


6-25. SCHEMATIC DIAGRAM — SMASTER SECTION (2/4) — • Refer to page 77 for IC Block Diagrams.

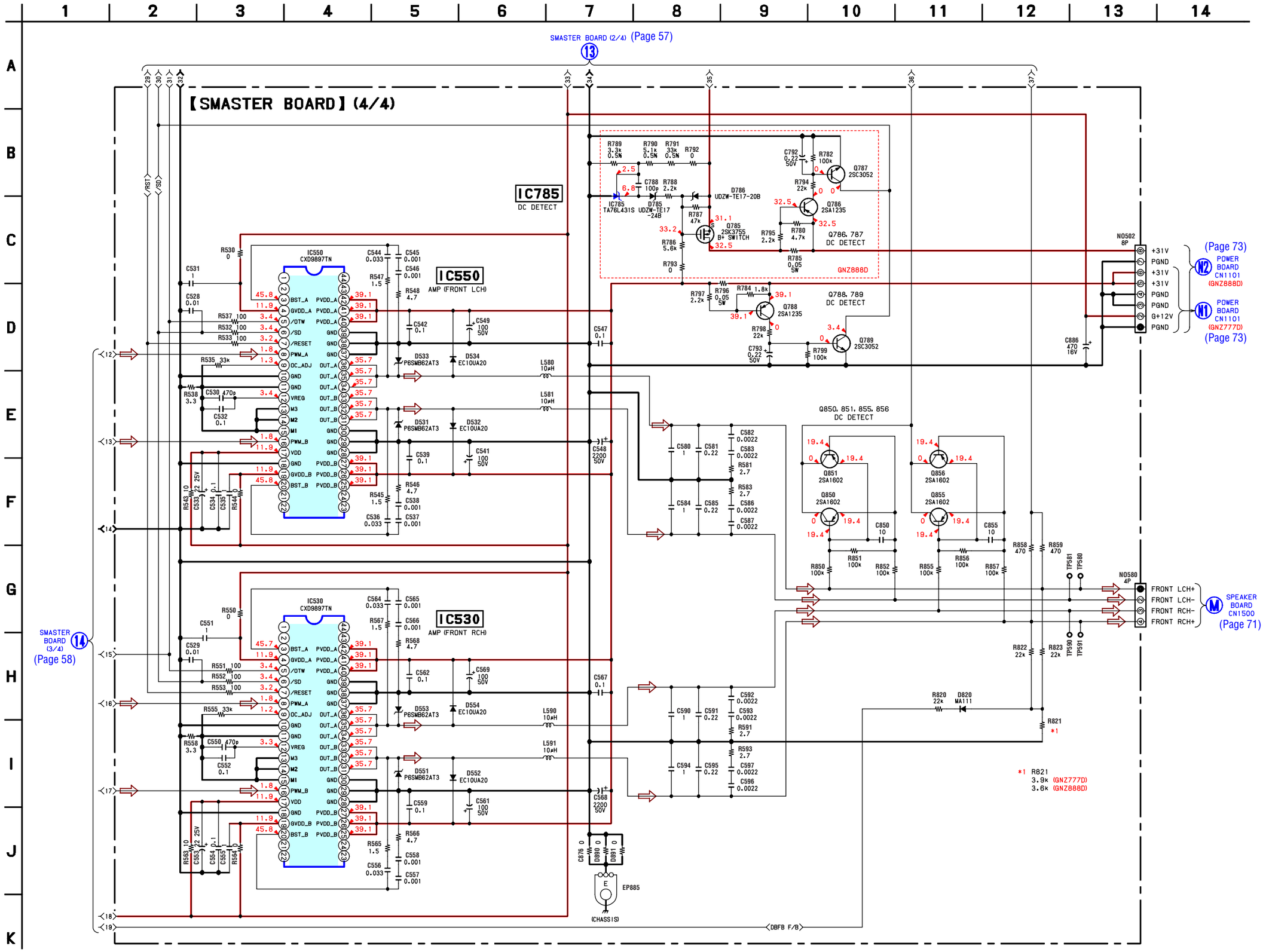


6-26. SCHEMATIC DIAGRAM — SMASTER SECTION (3/4) —

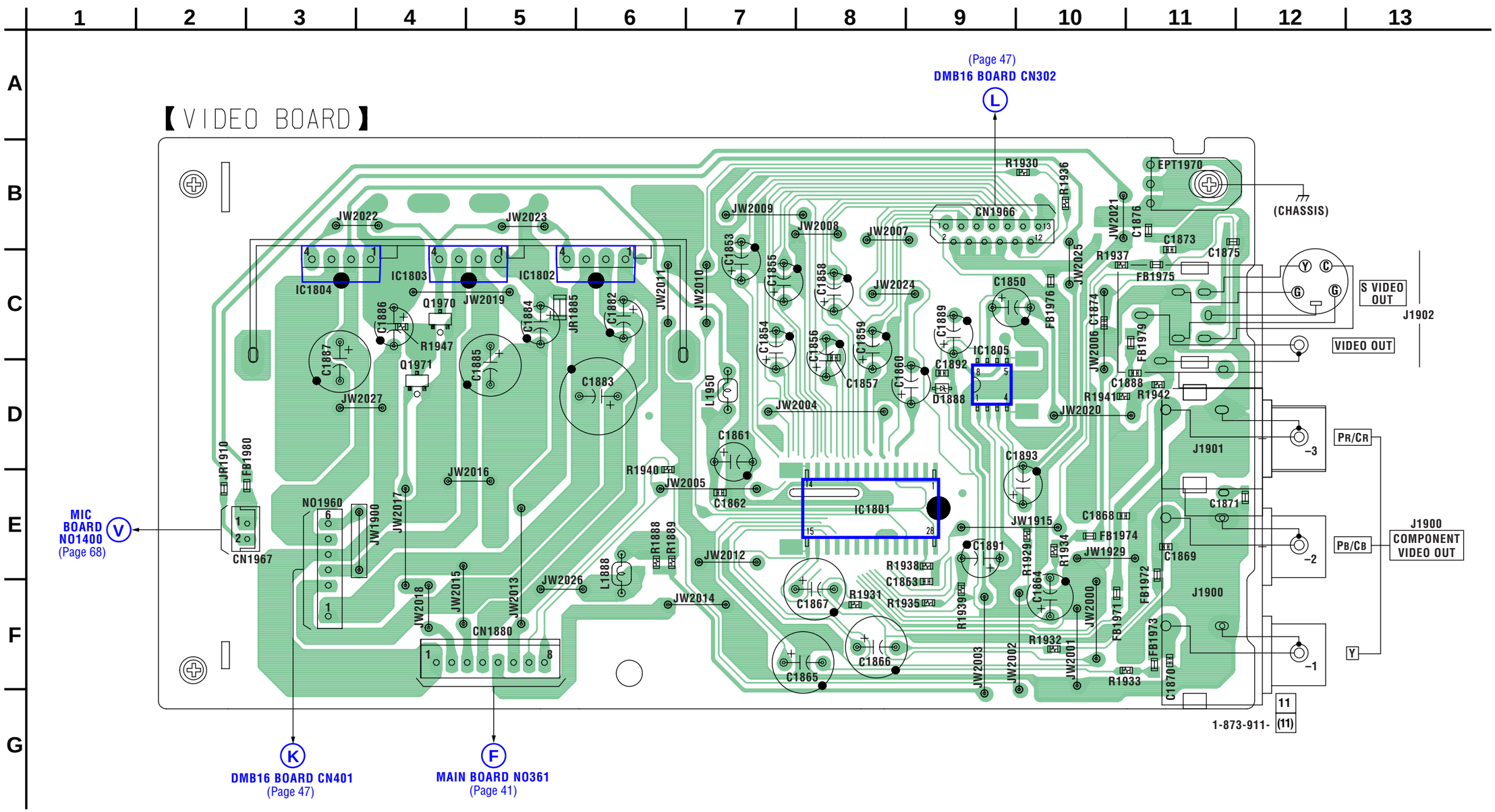
• Refer to page 38 for Waveforms.
• Refer to page 74 for IC Block Diagrams.



6-27. SCHEMATIC DIAGRAM — SMASTER SECTION (4/4) —



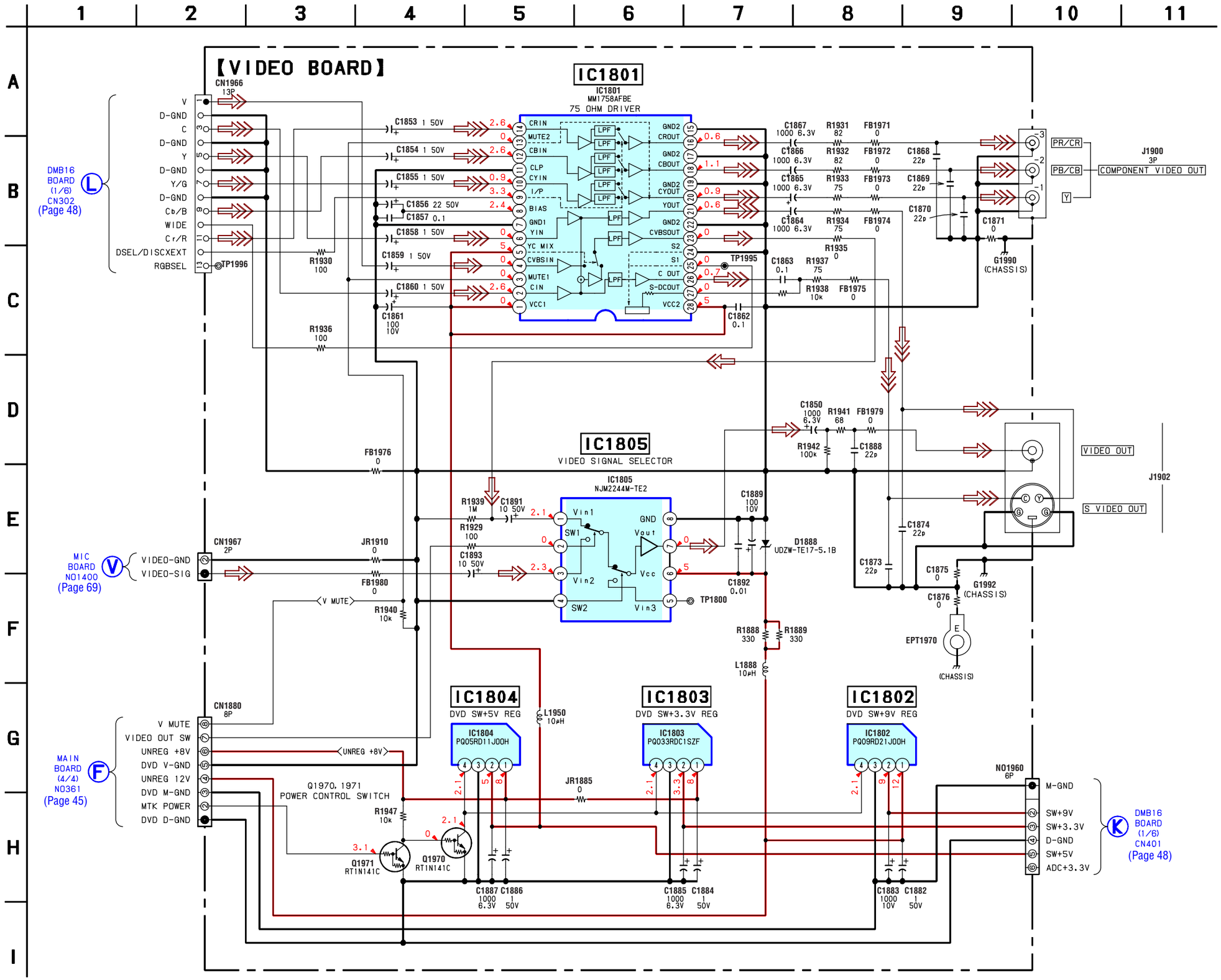
6-28. PRINTED WIRING BOARD — VIDEO SECTION — **• Refer to page 32 for Circuit Boards Location.** **: Uses unleaded solder.**



• Semiconductor Location

Ref. No.	Location
D1888	D-9
IC1801	E-8
IC1802	C-5
IC1803	C-4
IC1804	C-3
IC1805	D-9
Q1970	C-4
Q1971	D-4

6-29. SCHEMATIC DIAGRAM — VIDEO SECTION —

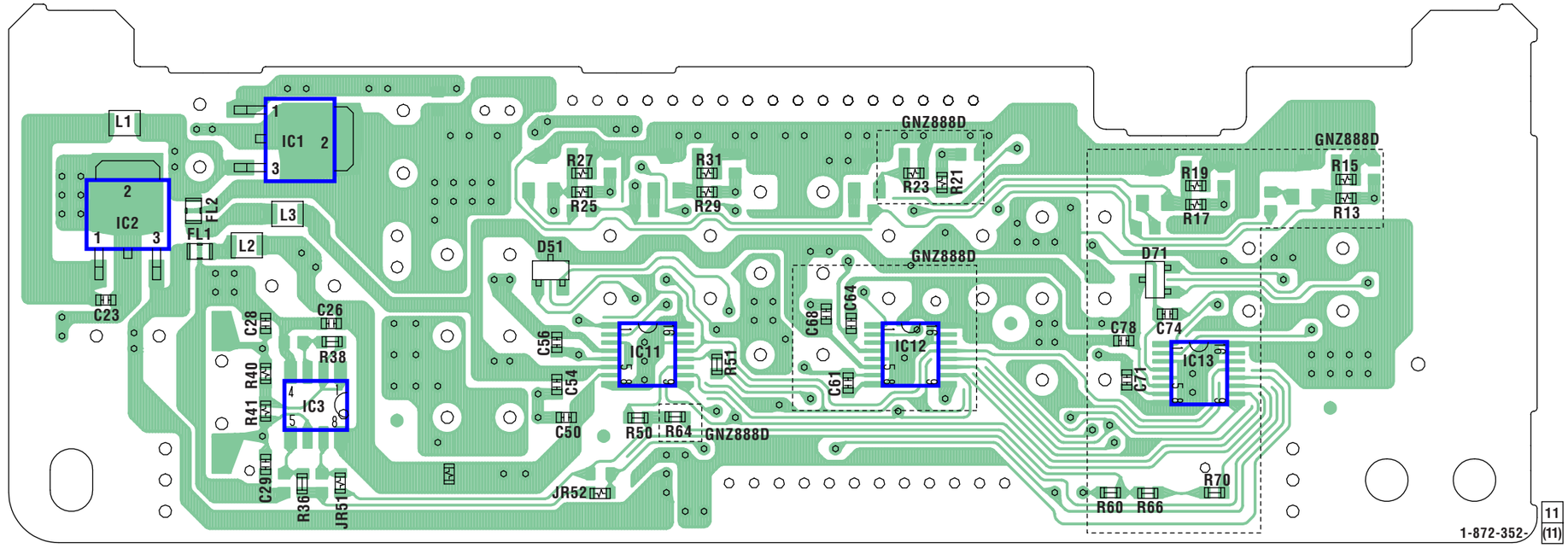


6-30. PRINTED WIRING BOARD — ADC SECTION —

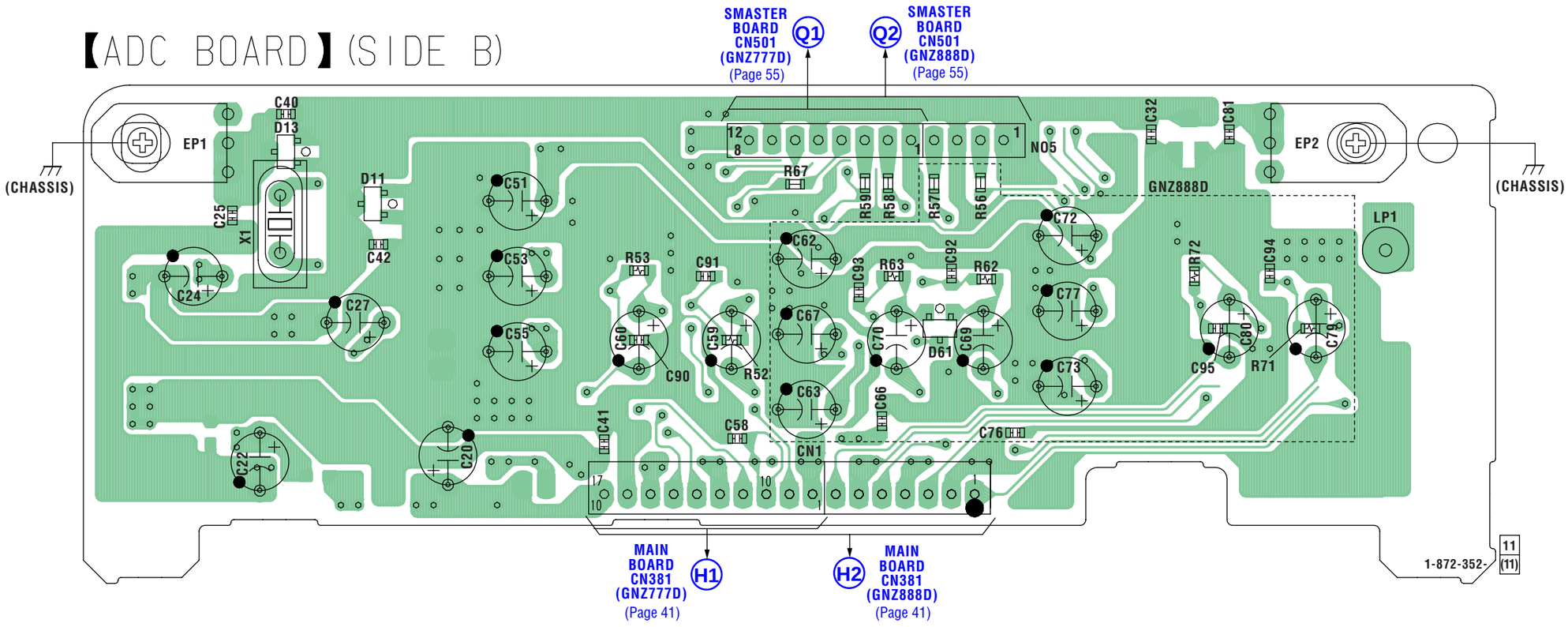
• Refer to page 32 for Circuit Boards Location.

: Uses unleaded solder.

【ADC BOARD】(SIDE A)



【ADC BOARD】(SIDE B)

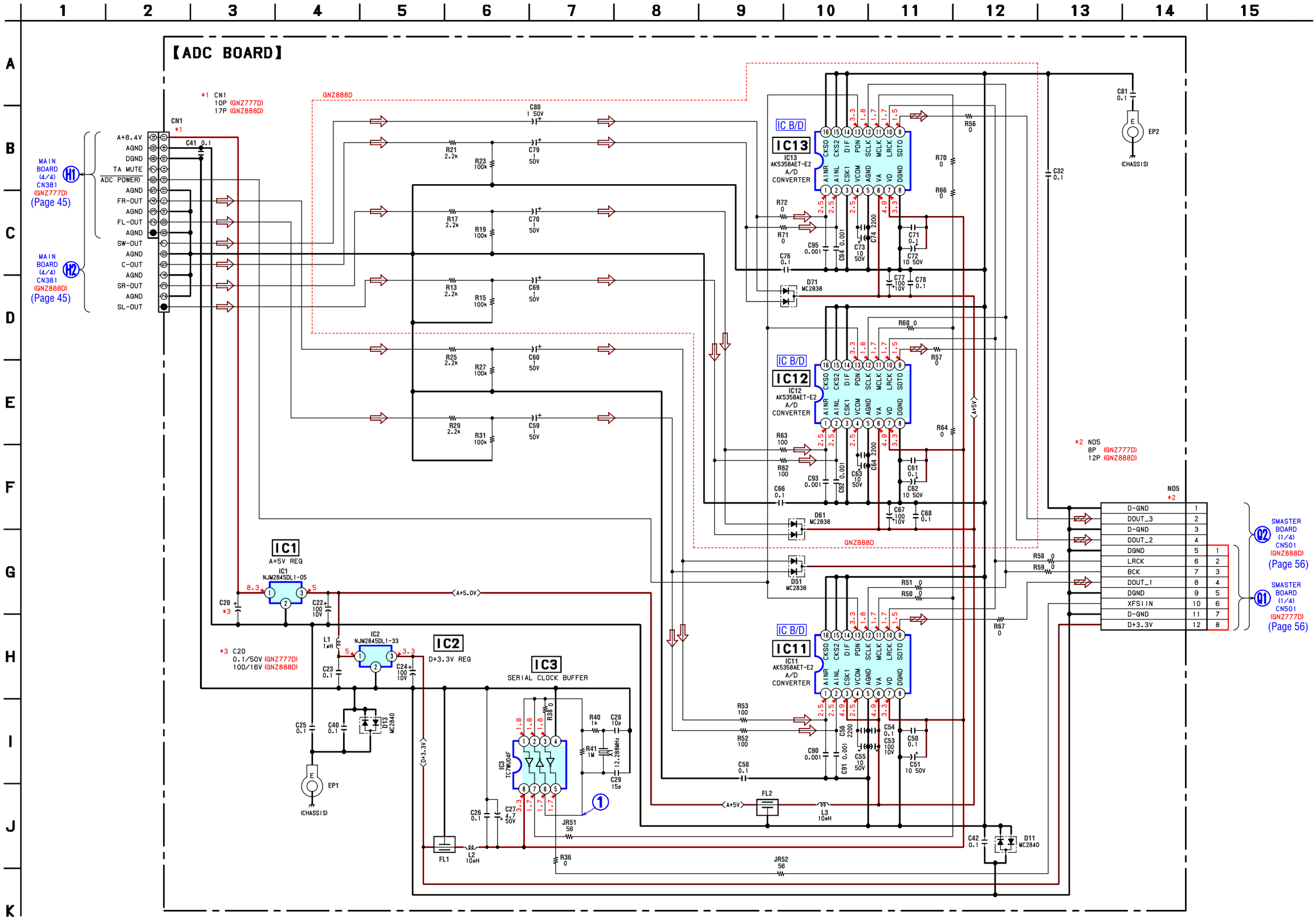


• Semiconductor Location

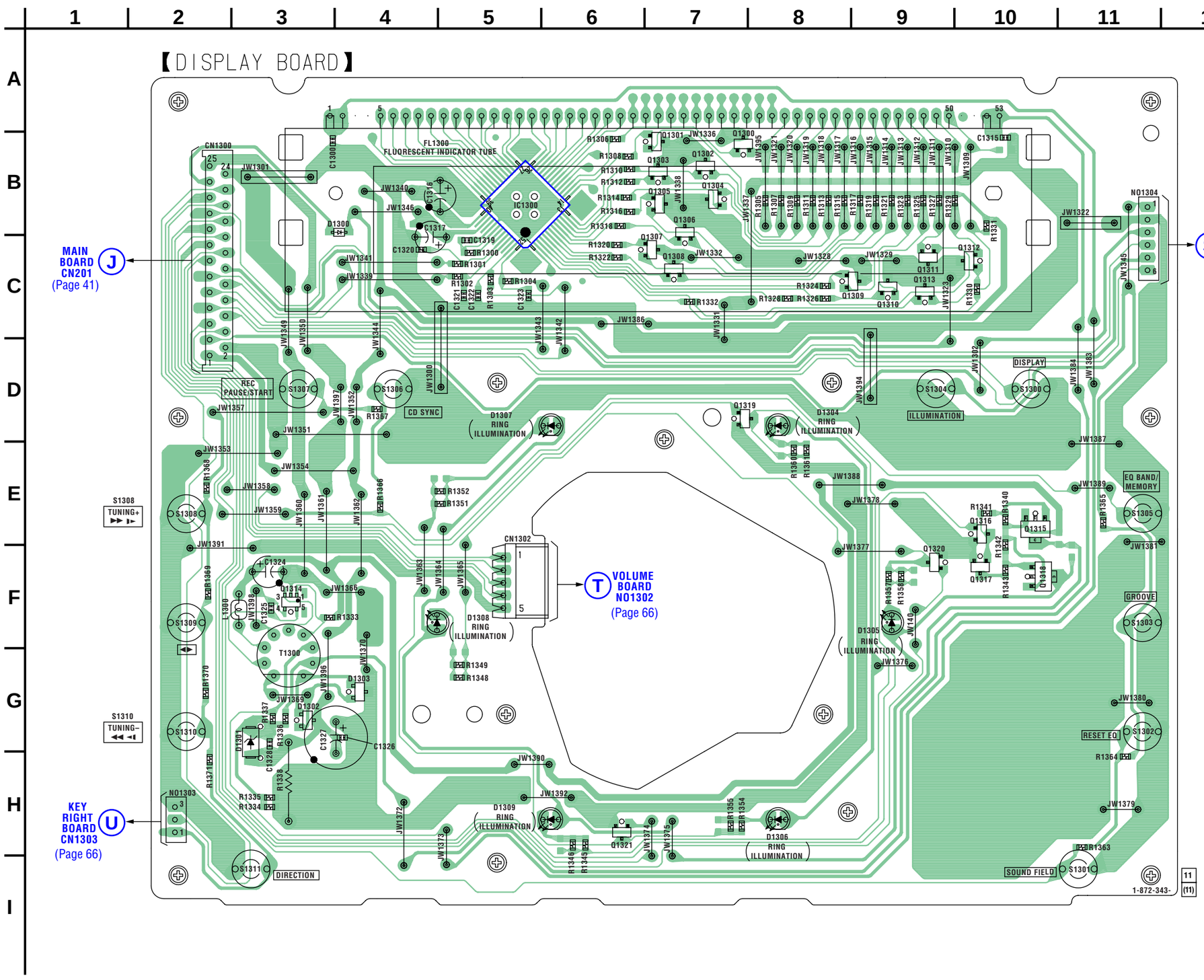
Ref. No.	Location
D11	G-4
D13	F-3
D51	C-5
D61	H-8
D71	C-10
IC1	B-3
IC2	C-2
IC3	D-3
IC11	D-6
IC12	D-8
IC13	D-10

6-31. SCHEMATIC DIAGRAM — ADC SECTION —

• Refer to page 38 for Waveforms.
• Refer to page 78 for IC Block Diagrams.


【ADC BOARD】
GNZ888D
*1 CN1
10P (GNZ777D)
17P (GNZ888D)
CN1
*1
A+8.4V
AGND
DGND
TA MUTE
ADC POWER)
AGND
FR-OUT
AGND
FL-OUT
AGND
SW-OUT
AGND
C-OUT
AGND
SR-OUT
AGND
SL-OUT
MAIN BOARD (4/4) CN381 (GNZ777D) (Page 45)
MAIN BOARD (4/4) CN381 (GNZ888D) (Page 45)
C41 0.1
IC B/D
IC13
IC13 AK5358AET-E2 A/D CONVERTER
IC12
IC12 AK5358AET-E2 A/D CONVERTER
IC11
IC11 AK5358AET-E2 A/D CONVERTER
CKSO CKS2 DIF PDN SCLK MCLK LRCK SDTO
AINR AINL CSK1 VCOM AGND VA VD DGND
D71 MC2838
D61 MC2838
D51 MC2838
D11 MC2840
D13 MC2840
C81 0.1
EP2
(CHASSIS)
C32 0.1
*2 NO5
8P (GNZ777D)
12P (GNZ888D)
NO5 *2
D-GND 1
DOUT_3 2
D-GND 3
DOUT_2 4
DGND 5 1
LRCK 6 2
BCK 7 3
DOUT_1 8 4
DGND 9 5
XFSIIN 10 6
D-GND 11 7
D+3.3V 12 8
Q2 SMASTER BOARD (1/4) CN501 (GNZ888D) (Page 56)
Q1 SMASTER BOARD (1/4) CN501 (GNZ777D) (Page 56)
IC1
A+5V REG
IC1 NJM2845DL1-05
A+5.0V
IC2
D+3.3V REG
IC2 NJM2845DL1-33
IC3
SERIAL CLOCK BUFFER
IC3 TC7WU04F
*3 C20
0.1/50V (GNZ777D)
100/16V (GNZ888D)
EP1
(CHASSIS)
FL1
FL2
L1 1μH
L2 10μH
L3 10μH
JR51 56
JR52 56
R36 0
R56 0
R70 0
R66 0
R64 0
R60 0
R57 0
R58 0
R59 0
R51 0
R50 0
R67 0
R72 0
R71 0
R63 100
R62 100
R53 100
R52 100
R40 1k
R41 1M
X1 12.288MHz
C28 10p
C29 15p
C58 0.1
C66 0.1
C76 0.1
C95 0.001
C93 0.001
C90 0.001
C92 0.001
C94 0.001
C91 0.001
C73 10 50V
C74 2200
C63 10 50V
C64 2200
C55 10 50V
C56 2200
C71 0.1
C72 10 50V
C61 0.1
C62 10 50V
C54 0.1
C53 100 10V
C50 0.1
C51 10 50V
C77 100 10V
C78 0.1
C67 100 10V
C68 0.1
C42 0.1
C80 1 50V
C79 1 50V
C70 1 50V
C69 1 50V
C60 1 50V
C59 1 50V
C26 0.1
C27 4.7 50V
C23 0.1
C25 0.1
C40 0.1
C20 *3
C22 100 10V
C24 100 10V
R21 2.2k
R23 100k
R17 2.2k
R19 100k
R13 2.2k
R15 100k
R25 2.2k
R27 100k
R29 2.2k
R31 100k
R30 0
R61 0
R54 0
R55 0
R65 0
R68 0
R69 0
R75 0
R76 0
R77 0
R78 0
R79 0
R80 0
R81 0
R82 0
R83 0
R84 0
R85 0
R86 0
R87 0
R88 0
R89 0
R90 0
R91 0
R92 0
R93 0
R94 0

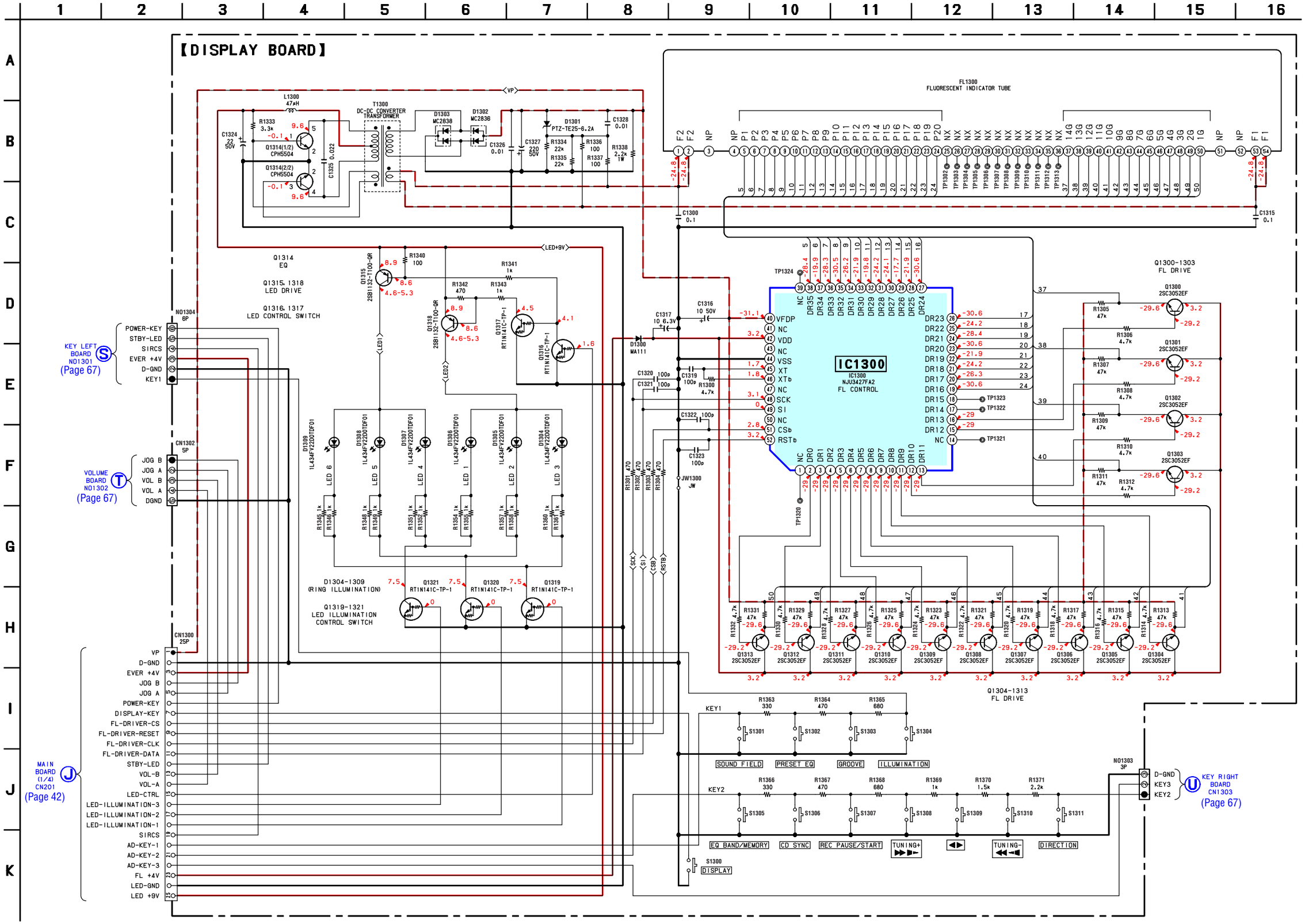
6-32. PRINTED WIRING BOARD — DISPLAY SECTION — • Refer to page 32 for Circuit Boards Location. : Uses unleaded solder.



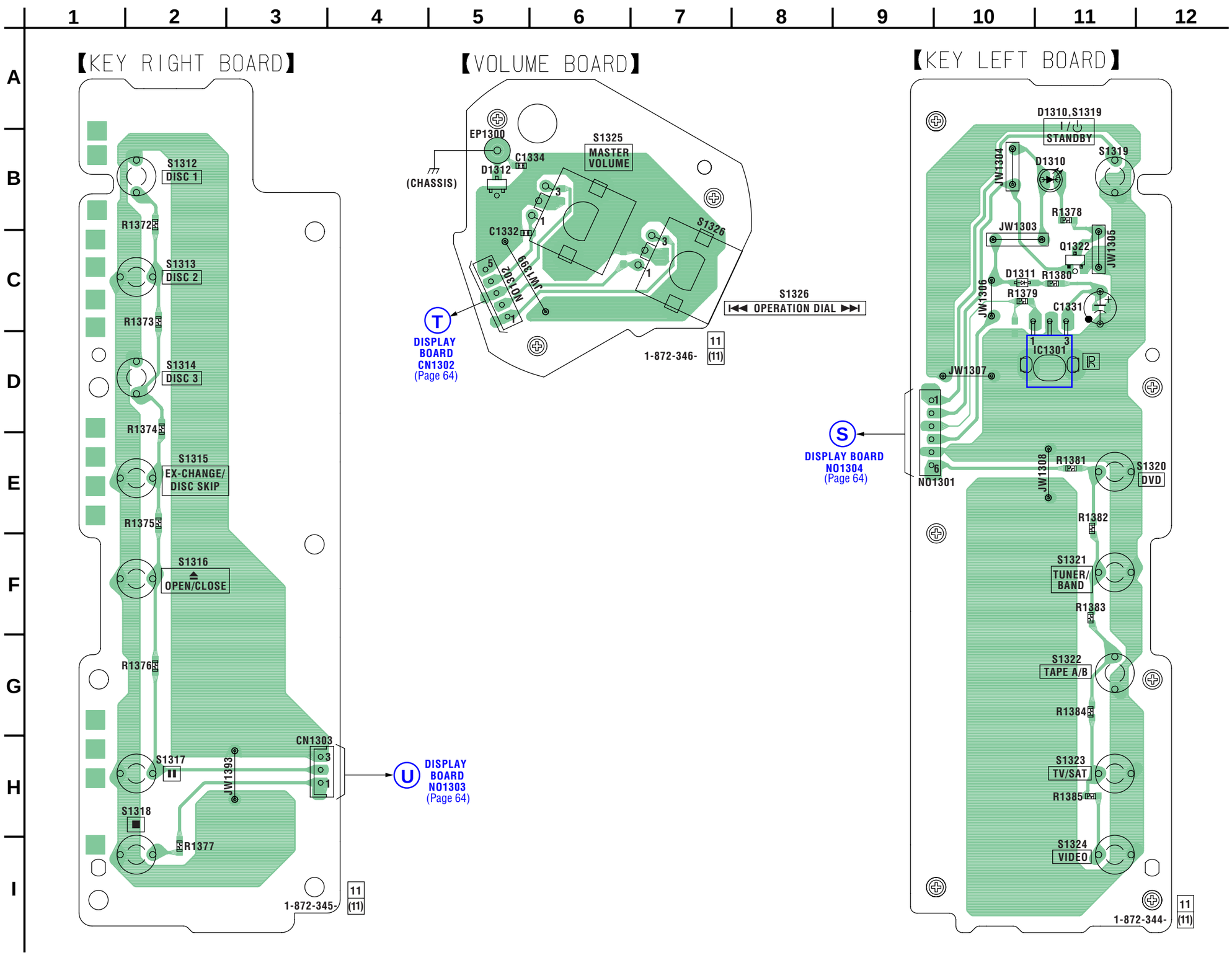
• **Semiconductor Location**

Ref. No.	Location
D1300	B-4
D1301	G-3
D1302	G-3
D1303	G-4
D1304	D-8
D1305	F-9
D1306	H-8
D1307	D-5
D1308	F-5
D1309	H-5
IC1300	B-5
Q1300	B-7
Q1301	B-7
Q1302	B-7
Q1303	B-7
Q1304	B-7
Q1305	B-7
Q1306	B-7
Q1307	C-7
Q1308	C-7
Q1309	C-8
Q1310	C-9
Q1311	C-9
Q1312	C-10
Q1313	C-9
Q1314	F-3
Q1315	E-10
Q1316	E-10
Q1317	F-10
Q1318	F-10
Q1319	D-7
Q1320	F-9
Q1321	H-6

6-33. SCHEMATIC DIAGRAM — DISPLAY SECTION —



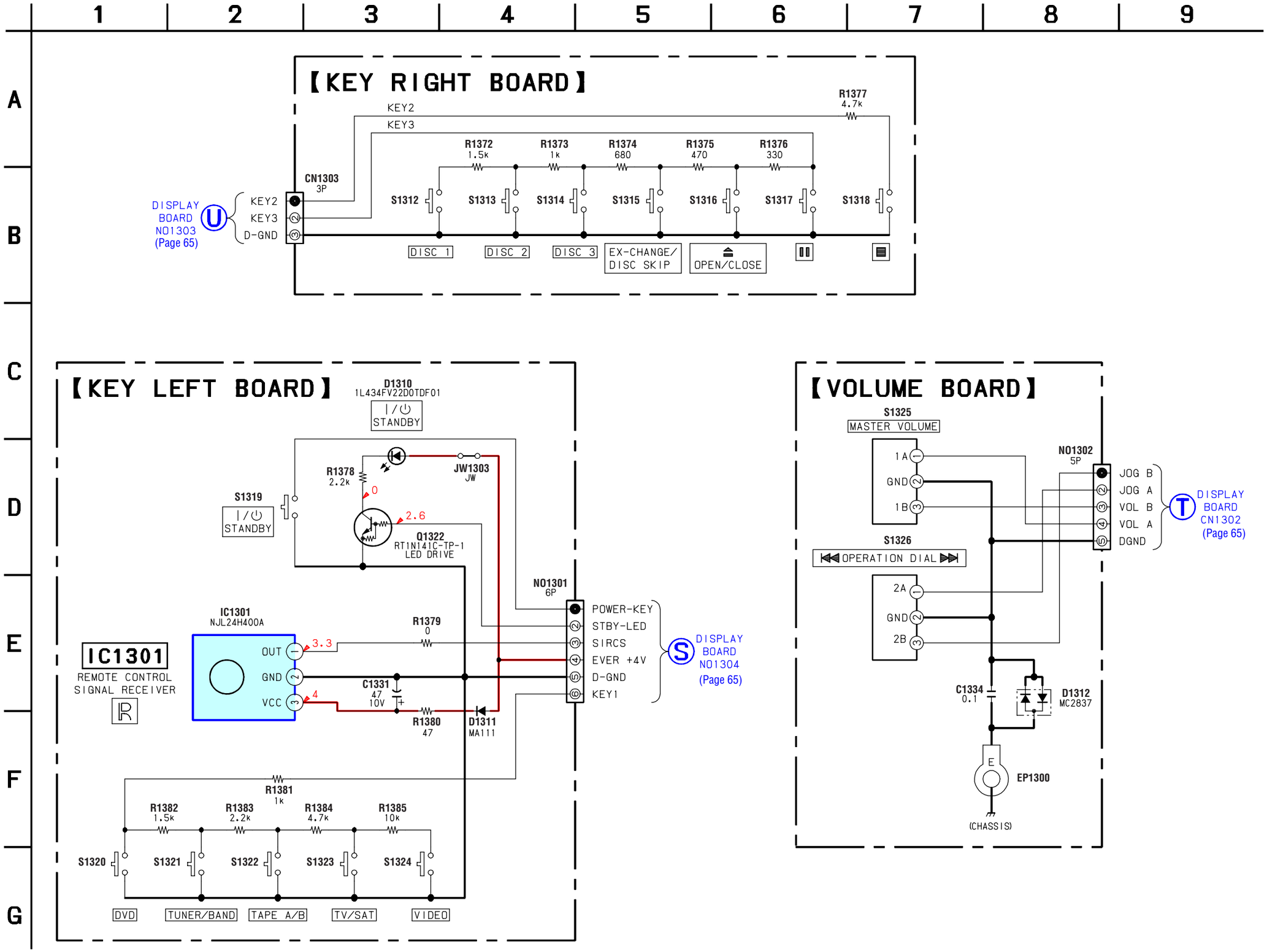
6-34. PRINTED WIRING BOARDS — KEY SECTION — • Refer to page 32 for Circuit Boards Location. : Uses unleaded solder.



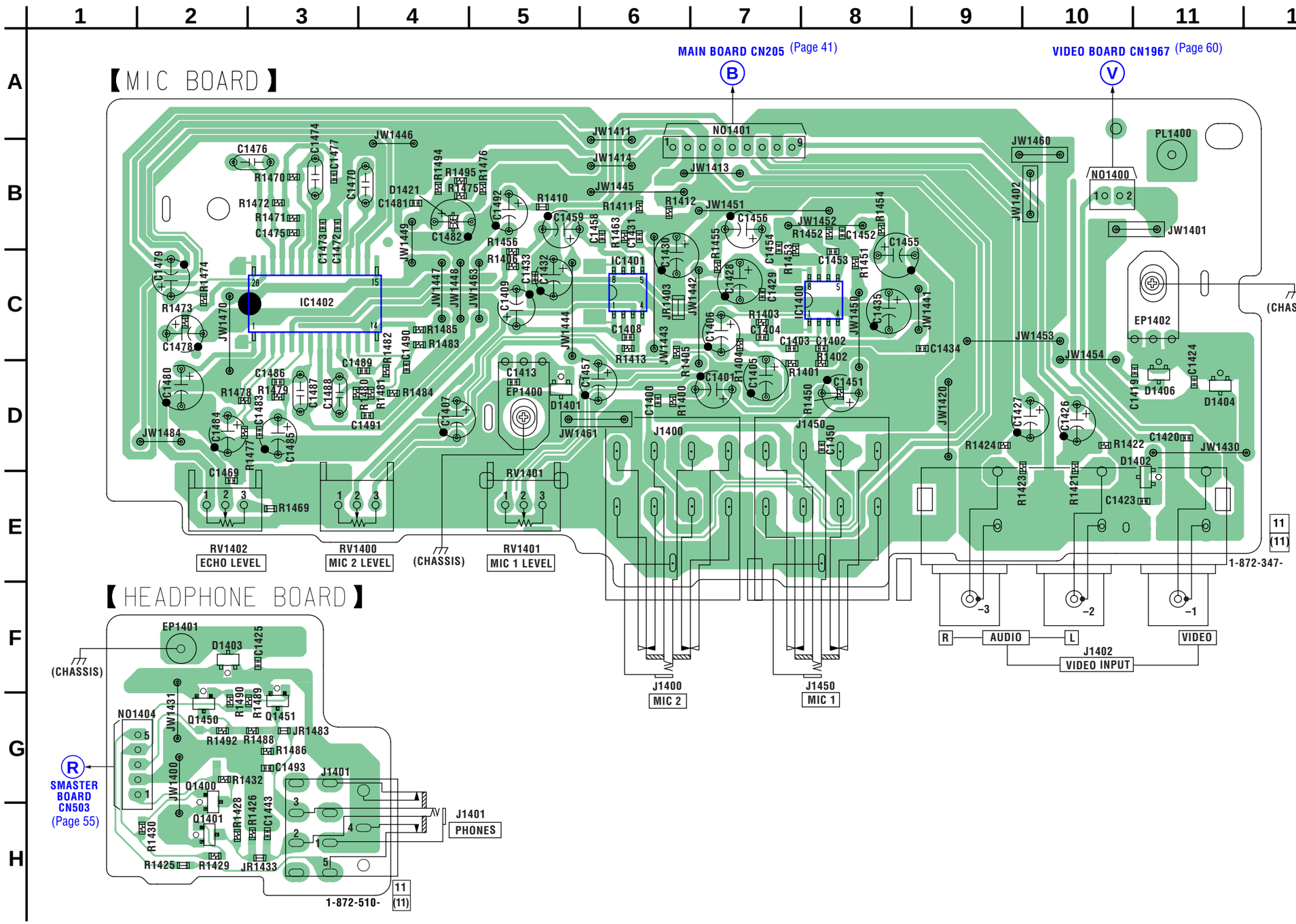
• **Semiconductor Location**

Ref. No.	Location
D1310	B-11
D1311	C-10
D1312	B-5
IC1301	D-11
Q1322	C-11

6-35. SCHEMATIC DIAGRAM — KEY SECTION —



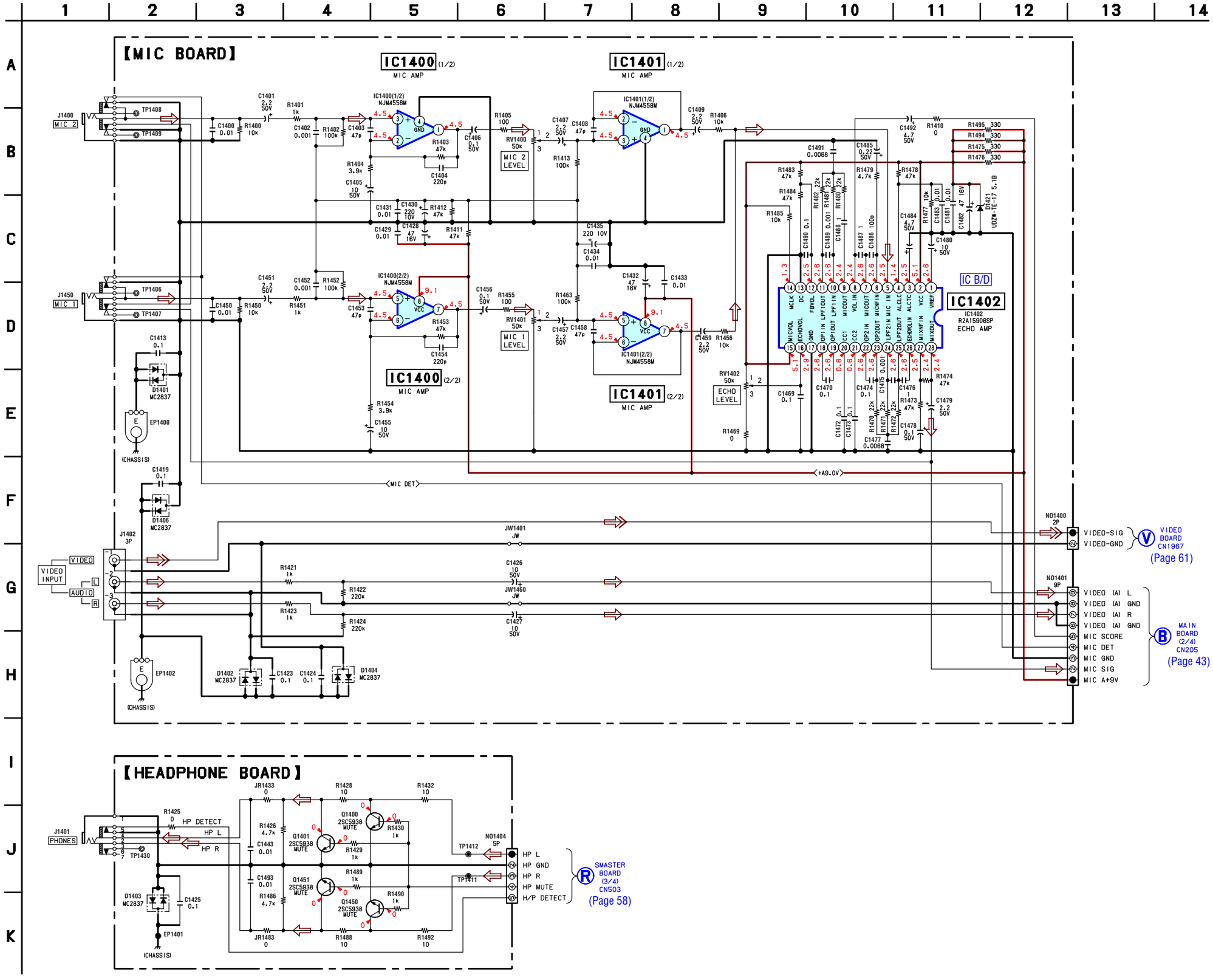
6-36. PRINTED WIRING BOARDS — MIC/HEADPHONE SECTION — • Refer to page 32 for Circuit Boards Location. : Uses unleaded solder.



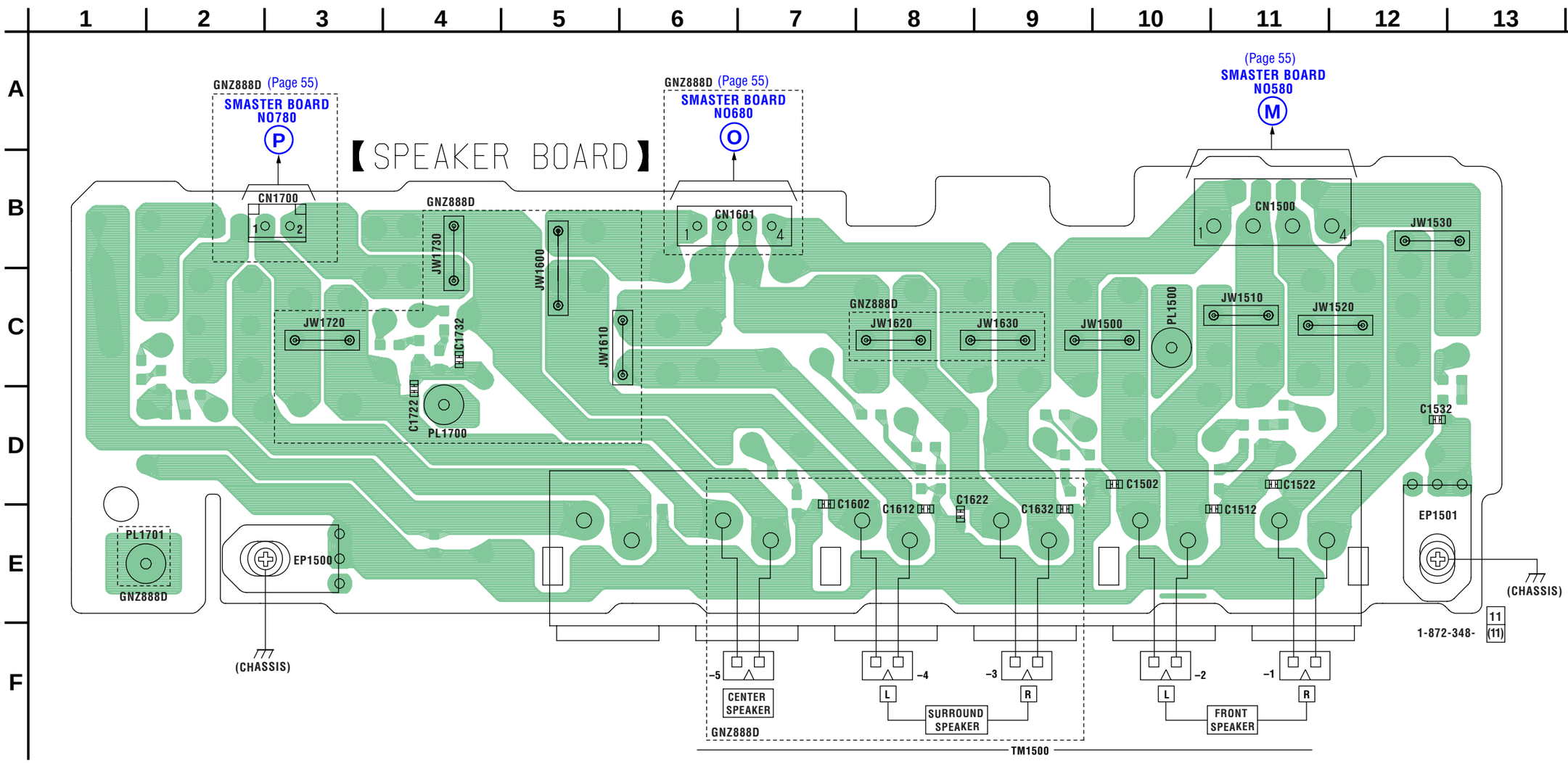
• **Semiconductor Location**

Ref. No.	Location
D1401	D-5
D1402	D-11
D1403	F-2
D1404	D-11
D1406	D-11
D1421	B-4
IC1400	C-8
IC1401	C-6
IC1402	C-3
Q1400	G-2
Q1401	H-2
Q1450	G-2
Q1451	G-3

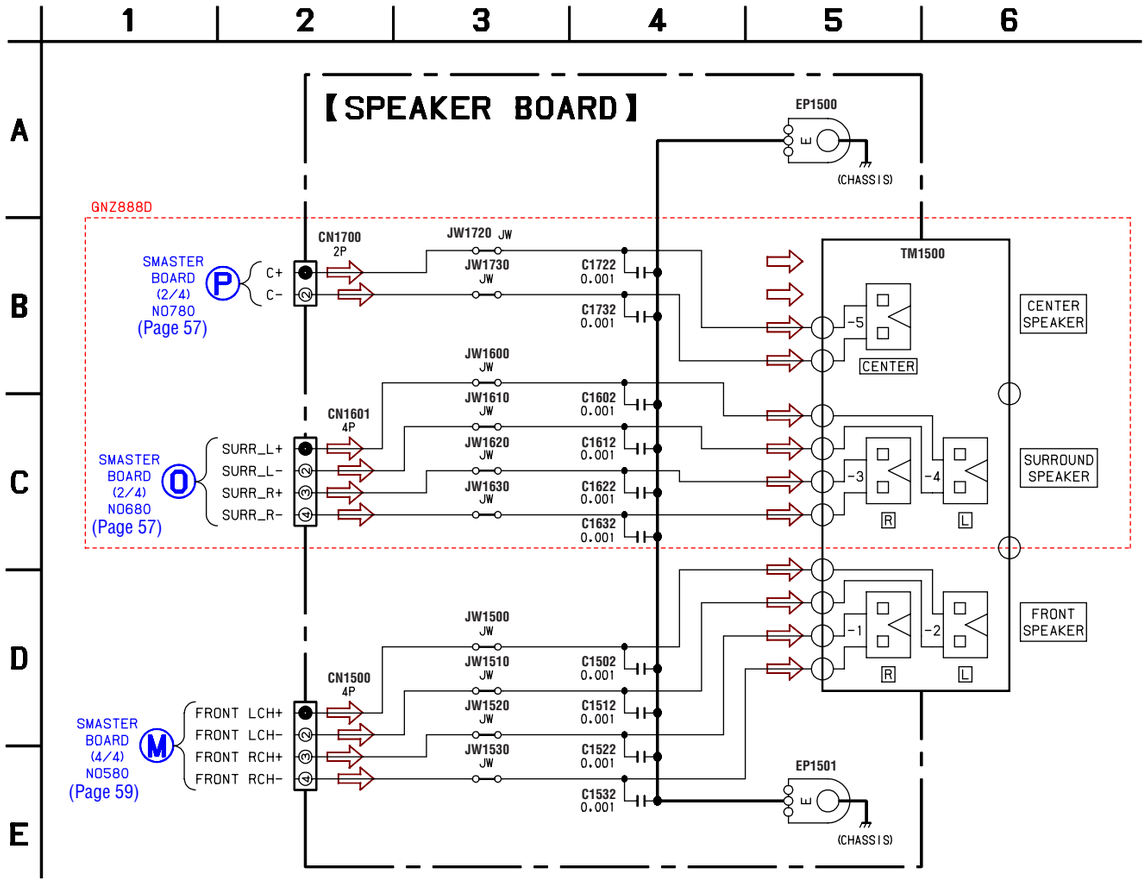
6-37. SCHEMATIC DIAGRAM — MIC/HEADPHONE SECTION — • Refer to page 79 for IC Block Diagrams.



6-38. PRINTED WIRING BOARD — SPEAKER SECTION — • Refer to page 32 for Circuit Boards Location. : Uses unleaded solder.

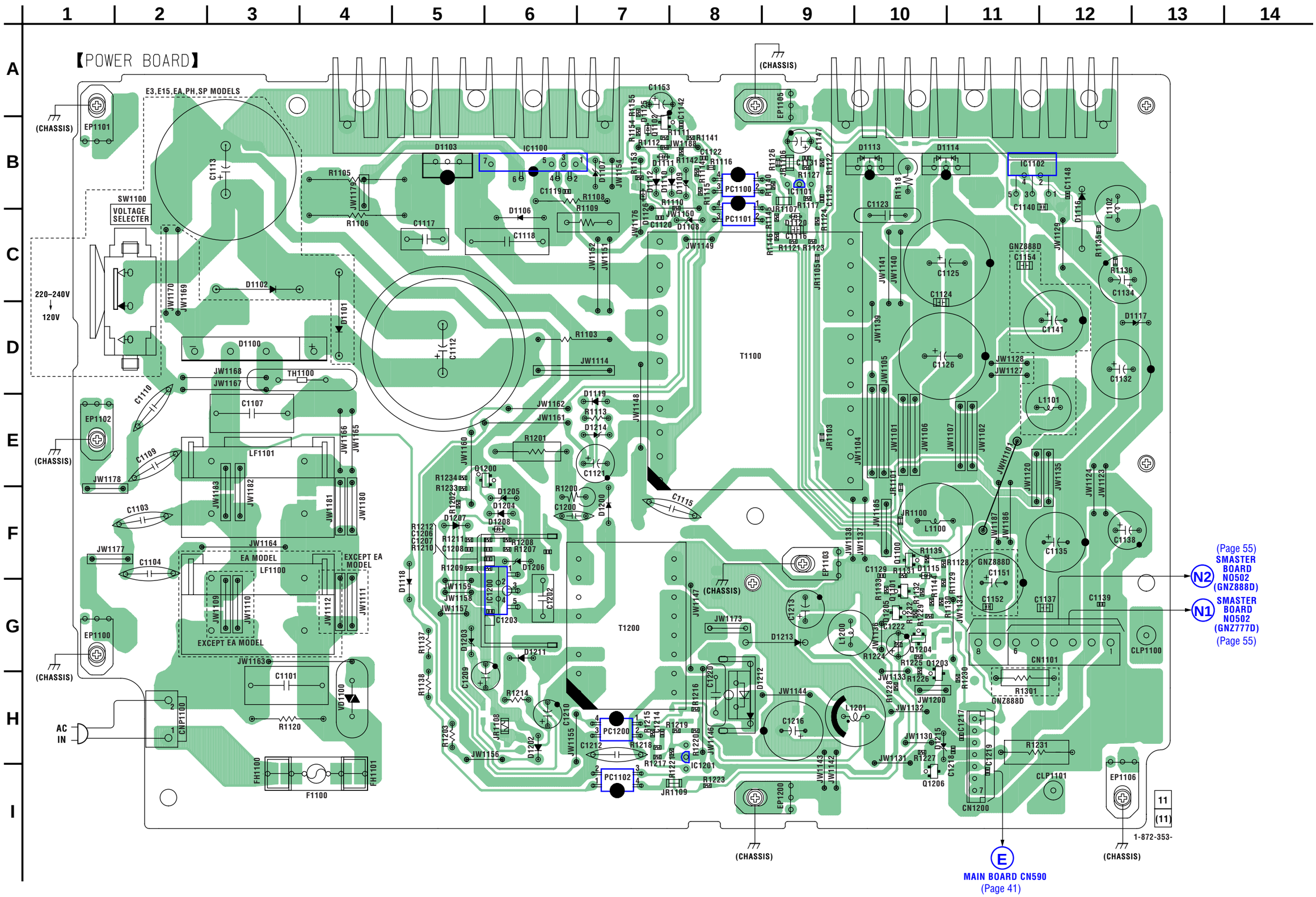


6-39. SCHEMATIC DIAGRAM — SPEAKER SECTION —



• Refer to page 73 for Semiconductor Location.

6-40. PRINTED WIRING BOARD — POWER SECTION — • Refer to page 32 for Circuit Boards Location. : Uses unleaded solder.


【POWER BOARD】
E3,E15,EA,PH,SP MODELS
(CHASSIS)
EP1101
SW1100
VOLTAGE SELECTER
220–240V
120V
AC IN
CNP1100
EP1102
EP1100
EP1103
EP1105
EP1200
D1100
D1101
D1102
D1103
D1106
D1107
D1108
D1109
D1110
D1111
D1112
D1115
D1116
D1117
D1118
D1119
D1120
D1121
D1122
D1123
D1124
D1125
D1126
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IC1201
PC1100
PC1101
PC1102
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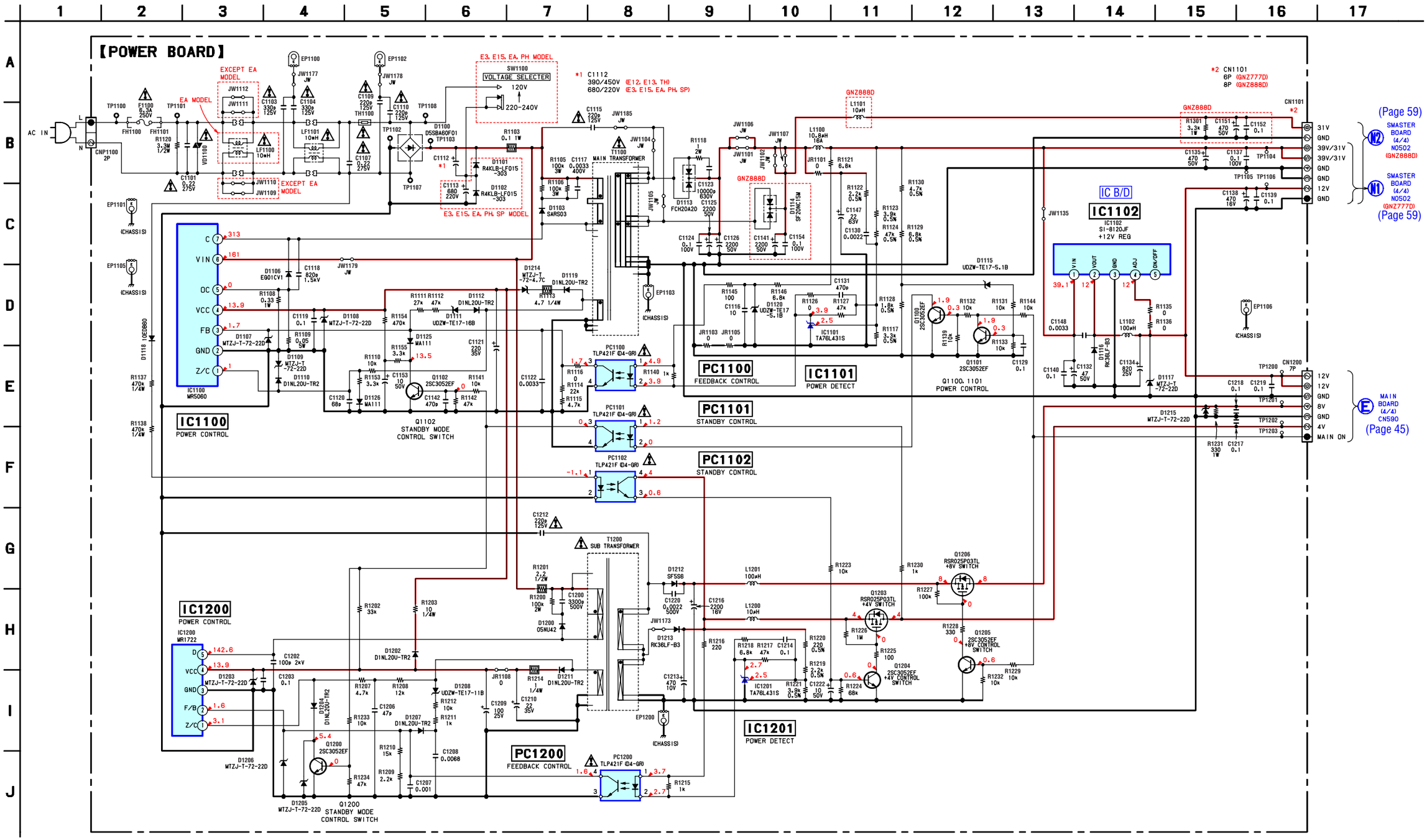
Q1119
Q1120
Q1121
Q1122
Q1123
Q1124
Q1125
Q1126
Q1127
Q1128
Q1129
Q1130
Q1131
Q1132
Q1133
Q1134
Q1135
Q1136
Q1137
Q1138
Q1139

6-41. SCHEMATIC DIAGRAM — POWER SECTION — • Refer to page 79 for IC Block Diagrams.

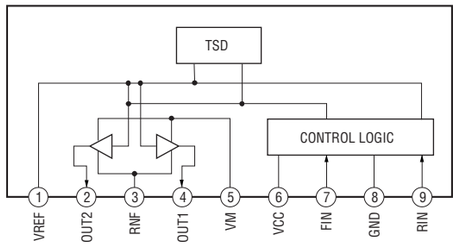


• **Semiconductor Location**

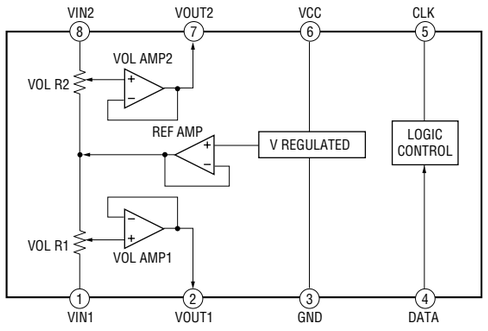
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1100	D-3	D1111	B-7	D1120	C-9	D1207	F-5	IC1101	B-9	Q1100	F-10
D1101	D-4	D1112	B-7	D1125	B-7	D1208	F-6	IC1102	B-11	Q1101	G-10
D1102	C-3	D1113	B-10	D1126	B-7	D1211	G-6	IC1200	G-6	Q1102	B-7
D1103	B-5	D1114	B-10	D1200	F-7	D1212	H-8	IC1201	H-8	Q1200	E-5
D1106	C-6	D1115	F-10	D1202	H-6	D1213	G-9			Q1203	G-10
D1107	B-7	D1116	B-12	D1203	G-5	D1214	E-7	PC1100	B-8	Q1204	G-10
D1108	C-8	D1117	D-13	D1204	F-6	D1215	H-10	PC1101	C-8	Q1205	G-10
D1109	B-8	D1118	G-5	D1205	F-6			PC1102	I-7	Q1206	I-10
D1110	B-7	D1119	E-7	D1206	F-6	IC1100	B-6	PC1200	H-7		

• **IC Block Diagrams**

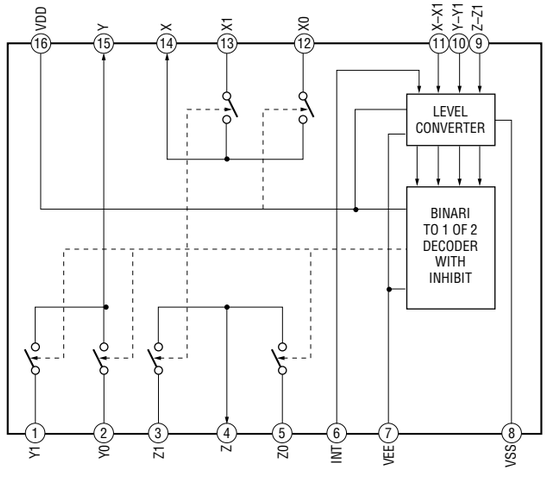
IC701 BA6956AN (DRIVER Board)
IC712 BA6956AN (DRIVER Board)



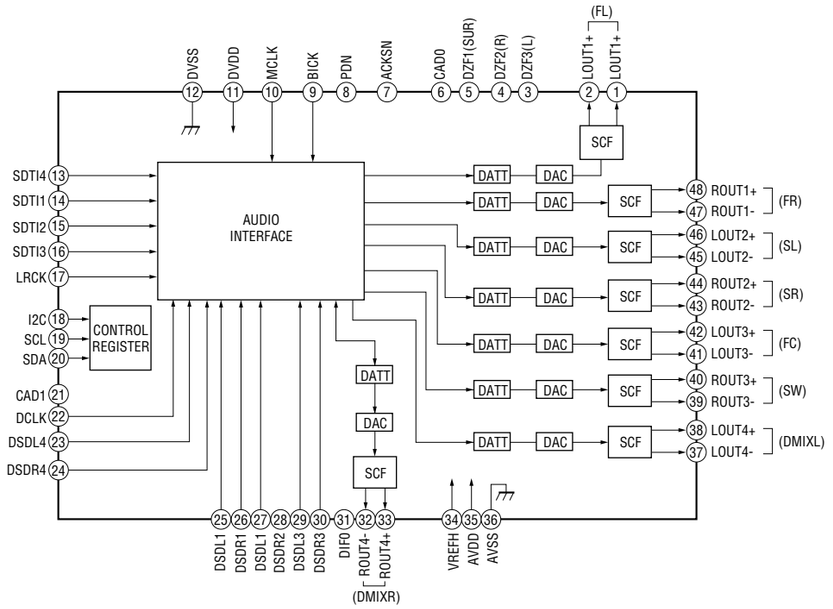
IC301 M61545AFP (MAIN Board (2/4))



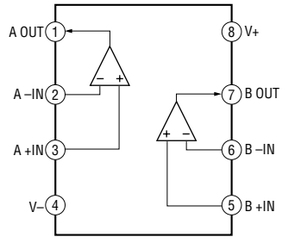
IC205 BU4053BCF-E2 (MAIN Board (4/4))



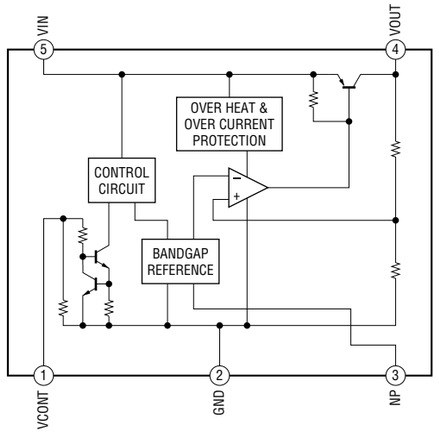
IC301 AK4358VQ-L (DMB16 Board (2/6))



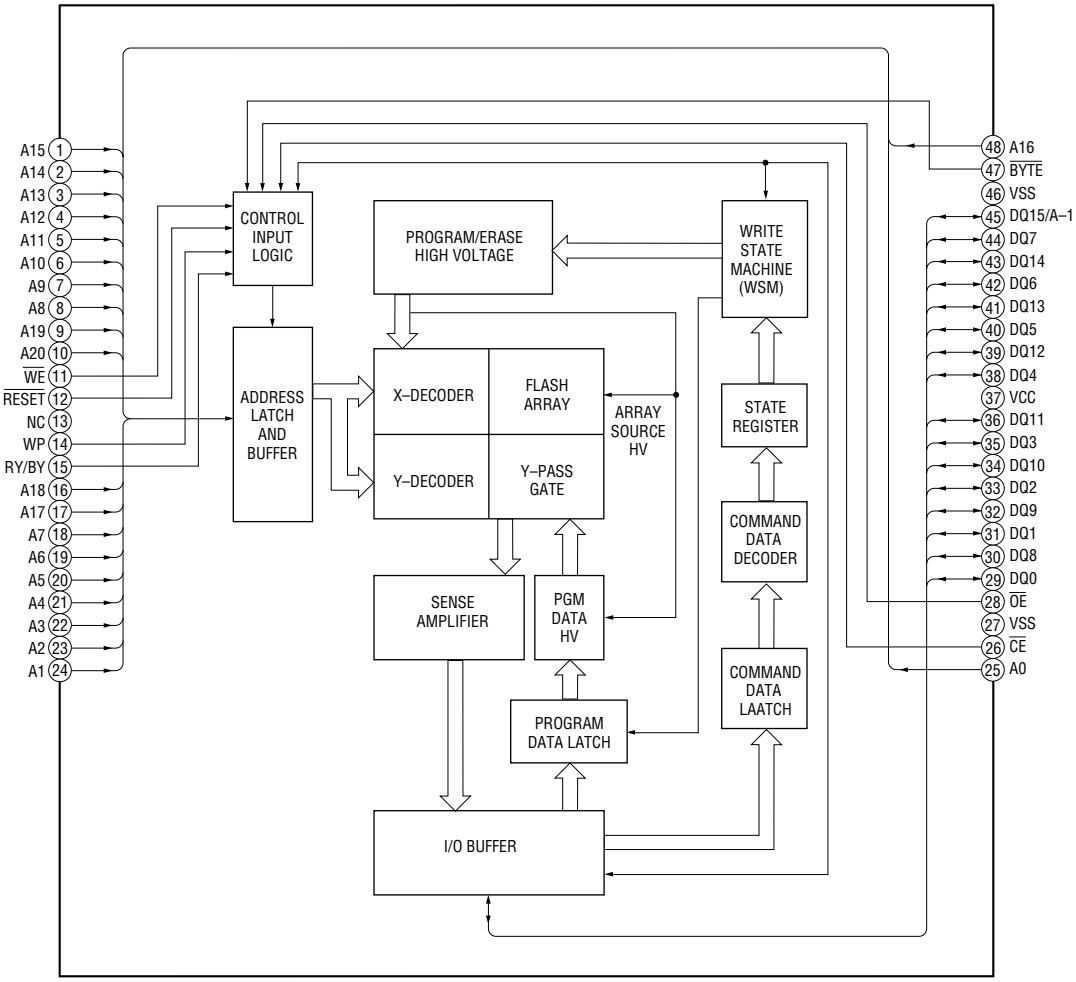
IC3711 NJM3414AV(TE2)
IC3731 NJM3414AV(TE2)
IC3751 NJM3414AV(TE2)
IC3771 NJM3414AV(TE2)
(DMB16 Board (2/6))



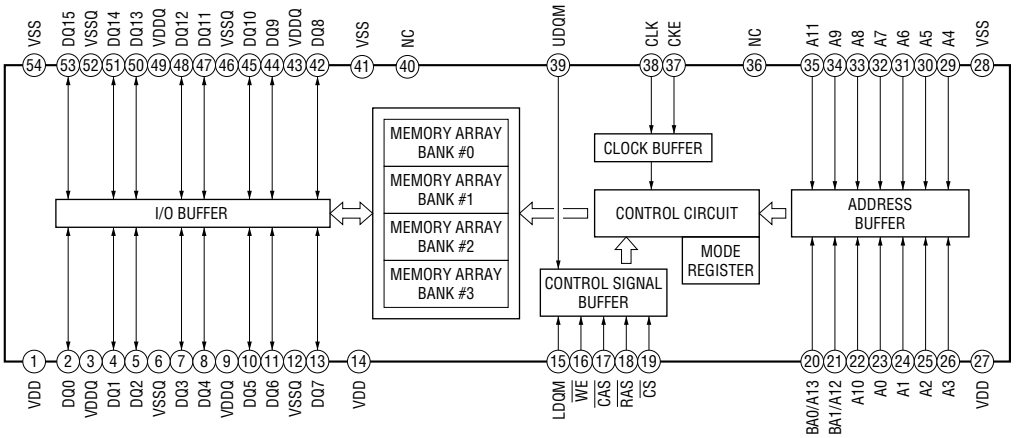
IC107 TK11133CSCL-G (DMB16 Board (3/6))
IC105 TK11133CSCL-G (DMB16 Board (5/6))
IC810 TK11118CSCL-G (SMASTER Board (3/4))



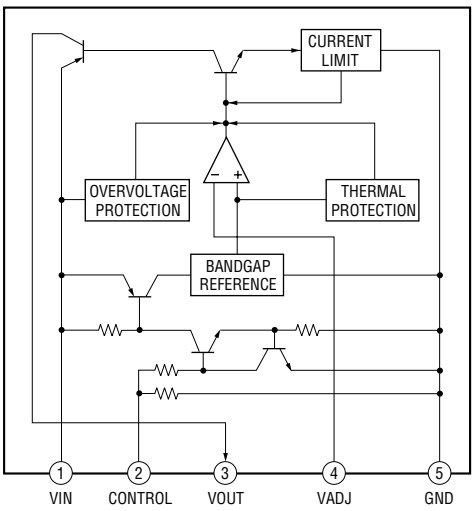
IC101 MX29LV320CBTC70-CBA2-0701CE (DMB16 Board (5/6))
IC101 MX29LV320CBTC70-CBA2-0701GA (DMB16 Board (5/6))
IC101 MX29LV320CBTC70-CBA3-0701CE (DMB16 Board (5/6))
IC101 MX29LV320CBTC70-CBA3-0701GA (DMB16 Board (5/6))



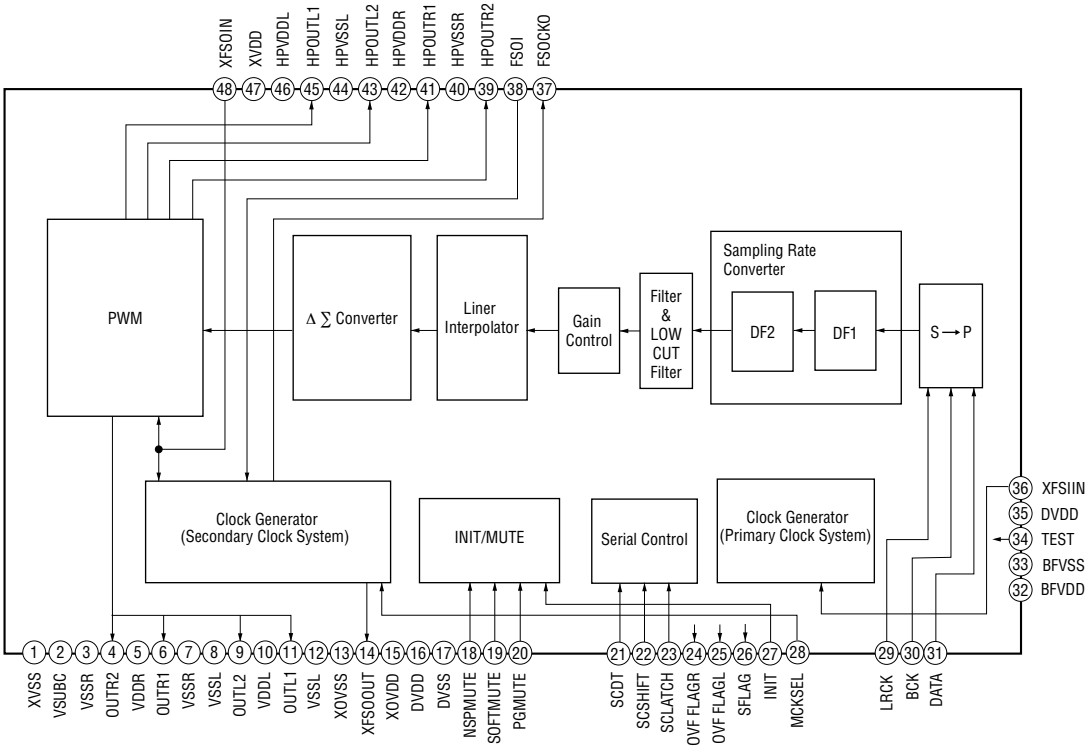
IC104 A2V64S40CTP-G75 (DMB16 Board (5/6))



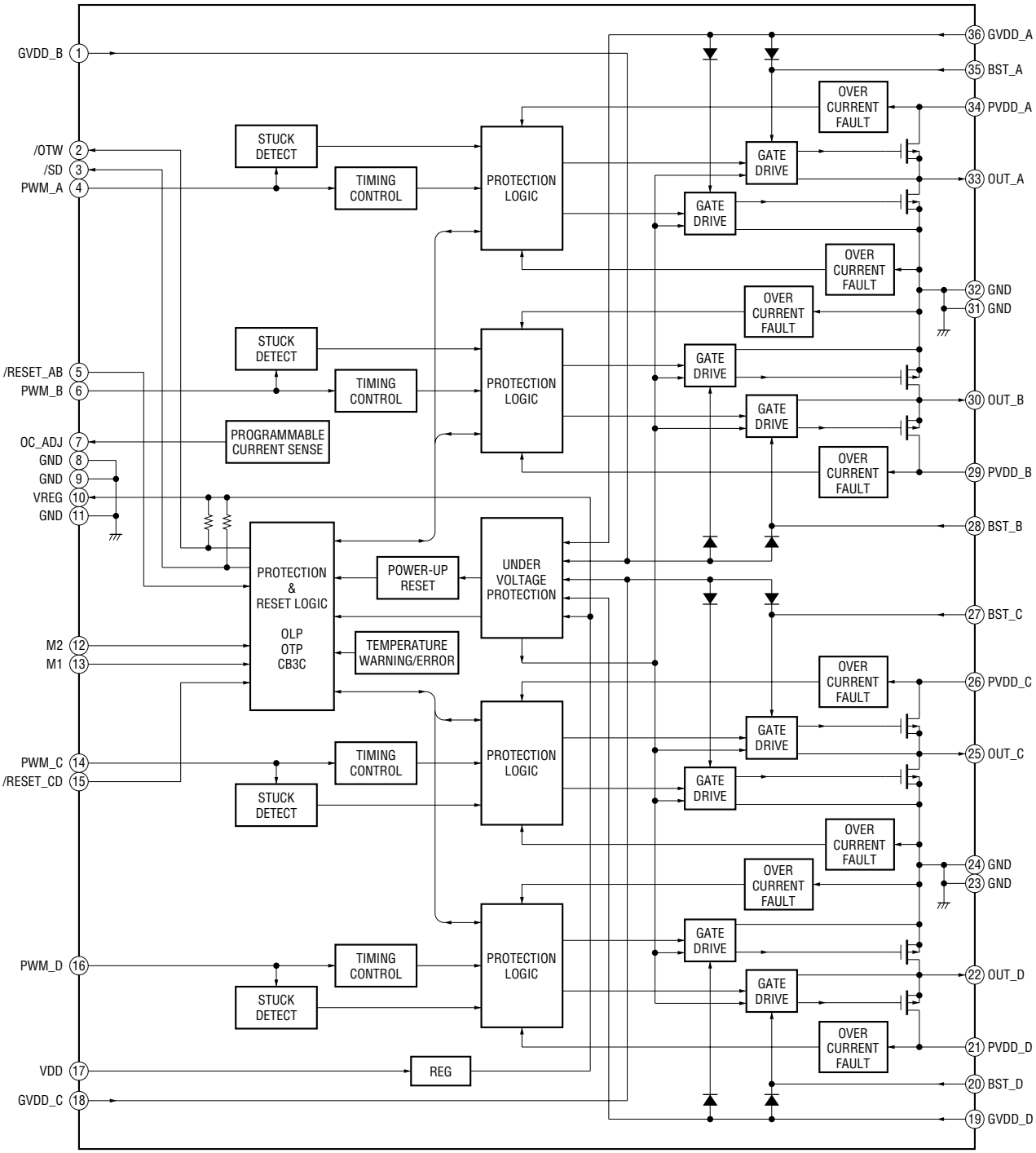
IC106 NJM2387ADL3(TE2) (DMB16 Board (5/6))



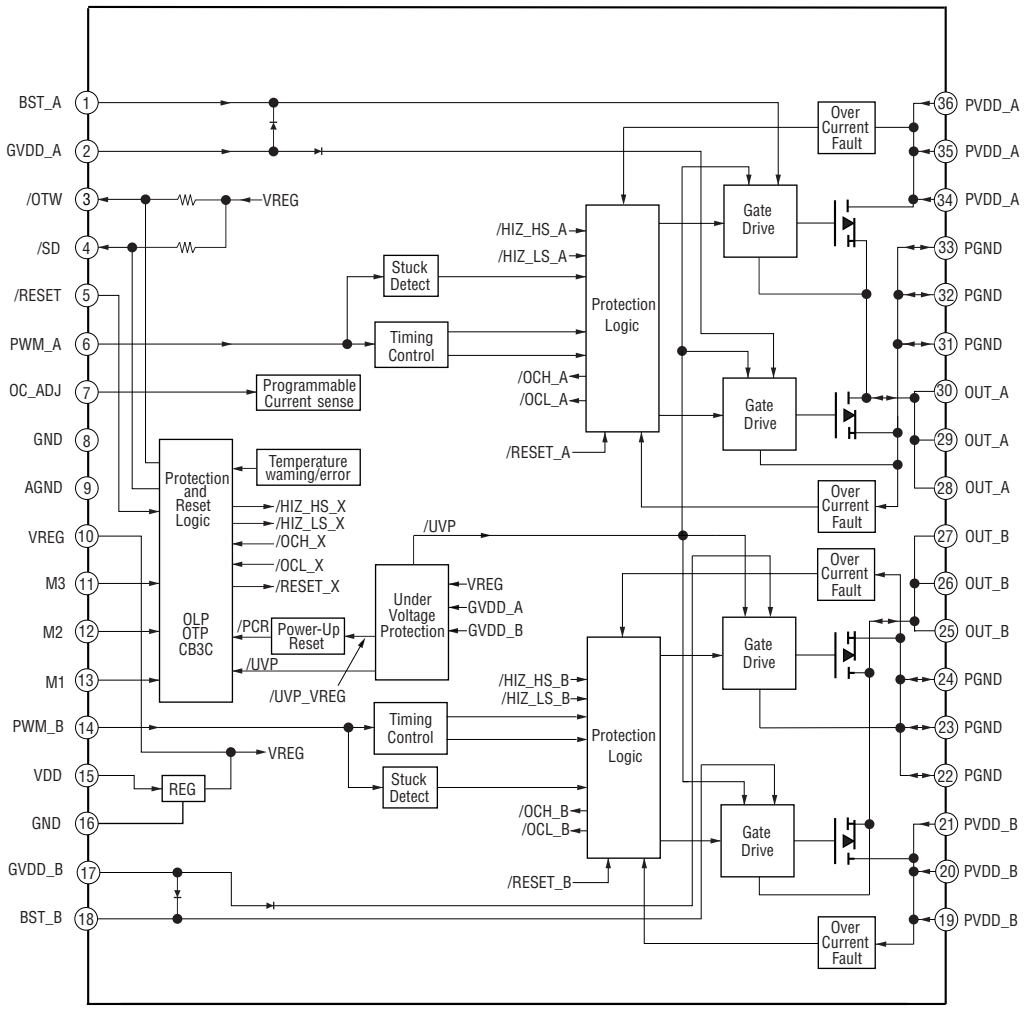
IC600 CXD9843AR (SMASTER Board (1/4))
IC700 CXD9843AR (SMASTER Board (1/4))
IC500 CXD9843AR (SMASTER Board (3/4))



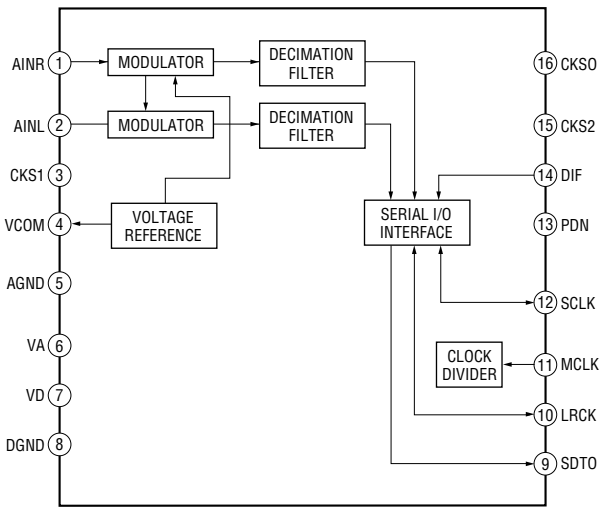
IC630 CXD9845AM (SMASTER Board (2/4))



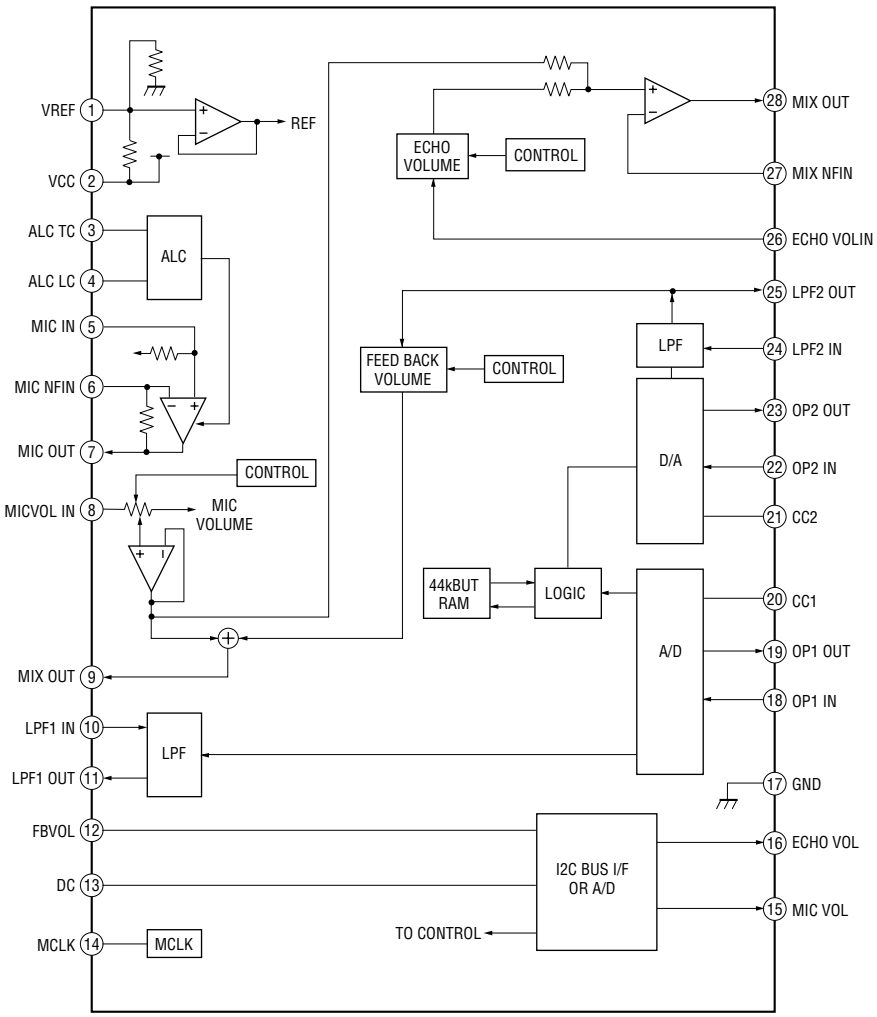
IC730 CXD9883M (SMASTER Board (2/4))



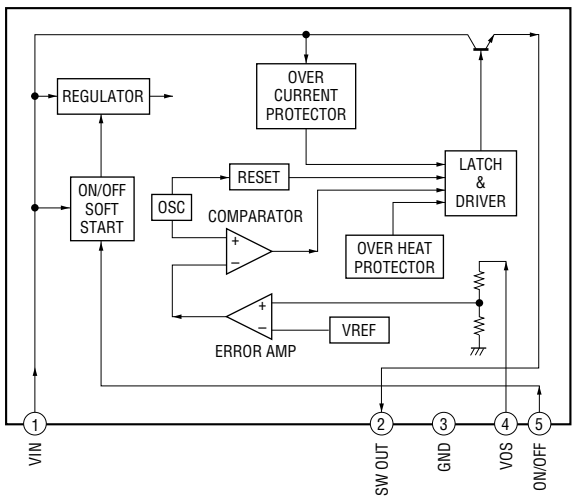
IC11 AK5358AET-E2 (ADC Board)
IC12 AK5358AET-E2 (ADC Board)
IC13 AK5358AET-E2 (ADC Board)



IC1402 R2A15906SP (MIC Board)



IC1102 SI-8120JF (POWER Board)



• IC Pin Descriptions

IC401 M30622MEP-B16FPU0 (SYSTEM CONTROL) (MAIN BOARD (1/4))

Pin No.	Pin Name	I/O	Pin Description
1	SW CHANNEL SELECT	O	Signal path selection signal for sub woofer channel “L”: LFE, “H”: Subwoofer out from M61537
2	SURR CHANNEL SELECT	O	Signal path selection signal for surround channel “L”: SL/FR (MTK), “H”: Tone out from M61537
3	REC BIAS	O	Recording bias on/off control signal output “H”: bias on
4	SIRCS	I	Remote control signal input
5	TC RELAY	O	Recording/Playback selection signal output “H”: recording, “L”: playback
6	VIDEO MUTE	O	Video muting on/off control signal output “L”: mute
7	PROTECT	I	Protector detection
8	BYTE	—	Ground pin
9	CNVSS	—	Ground pin
10	XC IN	I	Sub system clock input (32.768 kHz)
11	XC OUT	O	Sub system clock output (32.768 kHz)
12	RESET	I	System reset signal input from the reset signal IC “L”: reset After the power supply rises, “L” is input for several hundreds msec and then change to “H”.
13	X OUT	O	Main system clock output (5 MHz)
14	VSS	—	Ground pin
15	X IN	I	Main system clock input (5 MHz)
16	VCC	—	Power supply pin (+3.3 V)
17	NMI	I	Non-maskable interrupt input
18	NO USE	I	Not used. (Connect to ground.)
19	M61545AFP DATA	O	Serial data output to 2ch volume IC (subwoofer channel for HCD-GNZ777D)
20	AC CUT	I	AC off detection signal input from the reset signal IC “L”: AC Cut detected
21	M61545AFP CLK	O	Serial data transfer clock signal output to 2ch volume IC (subwoofer channel for HCD-GNZ777D)
22	VIDEO OUT SW	O	Composite video output switching output control “L”: DVD VIDEO output, “H”: VIDEO VIDEO input
23	MIC DETECT	I	Microphone connection detection signal input “L”: headphone connected
24	MTK RESET	O	Reset signal output “L”: reset
25	MTK XIFCS	I	Communication Initialization request acknowledgement signal input
26	KRMOD	I	Karaoke mode detection signal input
27	MIC STATUS	O	Microphone status signal output “L”: microphone is not connected, “H”: microphone is connected
28	MTK BUSY	O	Communication Initialization Request Signal output
29	IIC CLK	I/O	Clock signal for IIC communication between the microcomputer and the IIC checker
30	IIC DATA	I/O	Data signal for IIC communication between the microcomputer and the IIC checker
31	MTK SIO	O	Serial data signal output
32	MTK SOD	I	Serial data signal input
33	MTK CLK	I	Serial data clock signal input
34	DVD A MUTE	O	DVD analog signal muting on/off control signal output “H”: muting on
35	MTK POWER	O	Power supply control signal output “H”: Power supply on
36	ST CE	O	PLL chip enable signal output to the tuner unit
37	ST DIN/MC DOUT	O	PLL serial data signal output to the tuner unit
38	ST CLK	O	PLL serial data transfer clock signal output to the tuner unit
39	ST DOUT/MC DIN	I	PLL serial data signal input to the tuner unit
40	NO-USE	O	Not used in this set. (Open)
41	OPEN SW	I	Eject detection signal input from CDM
42	TBL SENSE	I	Disc tray position detection signal input from CDM
43	E3	I	Disc tray status detection signal input from CDM
44	E2	I	Disc tray status detection signal input from CDM

Pin No.	Pin Name	I/O	Pin Description
45	E1	I	Disc tray status detection signal input from CDM
46	TM F	O	CDM turning motor control signal output
47	TM R	O	CDM turning motor control signal output
48	LM F	O	CDM loading motor control signal output
49	LM R	O	CDM loading motor control signal output
50	LED ILLUMINATION 3	O	Dynamic LED drive signal output to the ILLUMINATION 5th indicator and 6th indicator "H": LED on
51	LED ILLUMINATION 2	O	Dynamic LED drive signal output to the ILLUMINATION 3rd indicator and 4th indicator "H": LED on
52	LED ILLUMINATION 1	O	Dynamic LED drive signal output to the ILLUMINATION 1st indicator and 2nd indicator "H": LED on
53	LED CTRL	O	Dynamic LED drive select signal output
54	VOL A	I	Jog dial pulse input from the VOLUME rotary encoder (A phase input)
55	VOL B	I	Jog dial pulse input from the VOLUME rotary encoder (B phase input)
56	ADC RESET/FAN CTRL/ STBY LED	O	ADC reset signal output/Fan on/off control signal output/LED drive signal output of POWER indicator "H": LED is turned on
57	FL DRIVER DATA	O	Serial data output signal to FL Driver, NJU3427
58	FL DRIVER CLK	O	Serial data clock signal to FL Driver, NJU3427
59	FL DRIVER RESET	O	Serial data reset signal to FL Driver, NJU3427
60	FL DRIVER CS	O	Serial data chip select signal to FL Driver, NJU3427
61	JOG A	I	Jog dial pulse input from the OPERATION DIAL encoder (A phase input)
62	VCC	—	Power supply pin (+3.3 V)
63	A HALF	I	Deck A cassette detection signal input "H": cassette detected
64	VSS	—	Ground pin
65	JOG B	I	Jog dial pulse input from the OPERATION DIAL encoder (B phase input)
66	B TRIG	O	Deck B side trigger plunger drive signal output "H": plunger on
67	CAPM CNT	O	Capstan motor drive signal output
68	A TRIG	O	Deck A side trigger plunger drive signal output "H": plunger on
69	SM SOFT MUTE	O	S-Master Processor IC soft muting on/off control signal output "L": muting on
70	SM NSP MUTE	O	S-Master Processor IC PWM 50% duty muting on/off control signal output "L": muting on
71	SM INIT	O	Initialization signal to the S-Master Processor IC
72	SM RESET	O	Reset signal output to the S-Master Power IC
73	DISPLAY KEY	I	DISPLAY key press detection signal (Interrupt input)
74	POWER KEY	I	POWER key press detection signal (Interrupt input)
75	SM SD	I	Shutdown (protector) detection signal from S-Master Power IC
76	SM LATCH 1	O	Serial data latch pulse output to the S-Master Processor
77	SM CLK	O	Serial data transfer clock signal to the S-Master Processor IC (CXD9843)
78	SM DATA	O	Serial data output signal to the S-Master Processor IC (CXD9843)
79	SM LATCH 2	O	Serial data latch pulse output to the S-Master Processor
80	SM LATCH 3	O	Serial data latch pulse output to the S-Master Processor
81	TC MUTE	O	Tape playback muting on/off control signal output "H": muting on
82	MTK 3.3V MONITOR	I	DVD power supply level monitoring signal input "L": protector on
83	M61537 DATA	O	Serial data output to audio signal processor, M61537FP
84	M61537 CLK	O	Serial data transfer clock signal output to audio signal processor, M61537FP
85	HP DET	I	Headphone connection detection signal input "H": headphone connected
86	HP MUTE	O	Headphone muting on/off control signal "H": muting on
87	REC MUTE	O	Recording muting on/off control signal output "L": muting on
88	VACS IN	I	VACS level detection signal
89	A SHUT	I	Shut off detection signal input from deck A side reel pulse detector (A/D input)
90	B SHUT	I	Shut off detection signal input from deck B side reel pulse detector (A/D input)
91	B HALF	I	Deck B cassette detection and forward side recording tab detection signal input (A/D input)

Pin No.	Pin Name	I/O	Pin Description
92	MODEL IN	I	Model setting (A/D input)
93	DEST IN	I	Destination setting (A/D input)
94	AD KEY 3	I	Key signal input (A/D input)
95	AD KEY 2	I	Key signal input (A/D input)
96	AVSS	—	Ground pin
97	AD KEY 1	I	Key signal input (A/D input)
98	VREF	I	A/D Converter reference voltage input (+3.3 V)
99	AVCC	—	Power supply pin (+3.3 V) (for A/D conversion)
100	MAIN ON/OFF	O	Main power on/off control signal output “H”: power on

IC102 CXD9849R (CD/DVD RF AMP, FOCUS/TRACKING ERROR AMP, DVD SYSTEM PROCESSOR, DIGITAL SERVO PROCESSOR) (DMB16 BOARD (4/6))

Pin No.	Pin Name	I/O	Pin Description
1	AGND	—	Ground pin
2	DVDA	I	AC coupled input path A
3	DVDB	I	AC coupled input path B
4	DVDC	I	AC coupled input path C
5	DVDD	I	AC coupled input path D
6	DVDRFIP	I	AC coupled DVD RF signal input RFIP
7	DVDRFIN	I	AC coupled DVD RF signal input RFIN Not used in this set. (Open)
8	NA	I	DC coupled main-beam RF signal input A
9	NB	I	DC coupled main-beam RF signal input B
10	MC	I	DC coupled main-beam RF signal input C
11	MD	I	DC coupled main-beam RF signal input D
12	SA	I	DC coupled sub-beam RF signal input A Not used in this set. (Open)
13	SB	I	DC coupled sub-beam RF signal input B Not used in this set. (Open)
14	SC	I	DC coupled sub-beam RF signal input C Not used in this set. (Open)
15	SD	I	DC coupled sub-beam RF signal input D Not used in this set. (Open)
16	CDFON	I	CD focusing error negative input Not used in this set. (Open)
17	CDFOP	I	CD focusing error positive input Not used in this set. (Open)
18	TNI	I	3 beam satellite PD signal negative input
19	TPI	I	3 beam satellite PD signal positive input
20	MDI1	I	Laser power PD monitor signal input
21	MDI2	I	Laser power PD monitor signal input
22	LDO2	O	Laser drive signal output
23	LDO1	O	Laser drive signal output
24	SVDD3	—	Power Supply pin (+3.3 V)
25	CSD	O	Central servo, Positive main beam summing signal output Not used in this set. (Open)
26	RFLVL	O	RFRP low pass, or Positive main beam summing signal output Not used in this set. (Open)
27	SGND	—	Ground pin
28	V2REFO	O	Reference voltage 2.8 V
29	V2O	O	Reference voltage 2.0 V
30	VREFO	O	Reference voltage 1.4 V
31	FEO	O	Focus error monitor signal output Not used in this set. (Open)
32	TEO	O	Tracking error monitor signal output Not used in this set. (Open)
33	TEZISLY	O	TE Slicing Level Not used in this set.
34	OPOUT	O	Op amp output Not used in this set. (Open)
35	OPIN	I	Op amp negative input Not used in this set. (Open)
36	OPIN	I	Op amp positive input Not used in this set. (Open)
37	DMO	O	Disk motor control signal output, PWM signal output
38	FMO	O	Feed motor signal control, PWM signal output
39	TROPENPWM	O	Tray PWM output/Tray open signal output.
40	IOPMON	I	General PWM signal input
41	TRO	O	Tracking servo signal output
42	FOO	O	Focus servo signal output
43	DVSS	—	Ground pin
44	NC	—	Not used. (Open)
45	NC	—	Not used. (Open)
46	DVDD3	—	Power Supply pin (+3.3 V)
47	SPFG	I	Motor Hall sensor signal input
48	DSEL	O	Select signal output

Pin No.	Pin Name	I/O	Pin Description
49	WIDE	I	Wide signal output
50	MSW	O	Volume control signal output
51	MAMUTE	O	MAMUTE signal output to System Controller Not used in this set. (Open)
52	DVDD18	—	Power Supply pin (+1.8 V)
53 to 58	IOA 2 to 7	O	Address bus 2 to 7 output to PROM
59	HIGHA0	O	Address bus 8 output to PROM
60, 61	IOA18, 19	O	Address bus 18, 19 output to PROM
62	DVSS	—	Ground pin
63	APLLCAP	I	APLL External Capacitance connection
64	APLLVSS	—	Ground pin
65	VDD3	—	Power Supply pin (+3.3 V)
66	IOWR	O	WE signal output to PROM
67	A16	O	Address bus 16 output to PROM
68 to 72	HIGHA 7 to 3	O	Address bus 15 to 11 output to PROM
73	DVDD3	—	Power Supply pin (+3.3 V)
74, 75	HIGHA 2, 1	O	Address bus 10, 9 output to PROM
76	IOA20	O	Address bus 20 output to PROM
77	IOCS	O	CE signal output to PROM
78	IOA1	O	Address bus 1 output to PROM
79	IOOE	O	OE signal output to PROM
80	DVDD3	—	Power Supply pin (+3.3 V)
81 to 84	AD 0 to 3	I	Data bus 0 to 3 input from PROM
85	DVSS	—	Ground pin
86 to 88	AD 4 to 6	I	Data bus 4 to 6 input from PROM
89	IOA21	O	Address bus 21 output to PROM
90	ALE	O	Address latch enable Not used in this set. (Open)
91	AD7	I	Data bus 7 input from PROM
92	A17	O	Address bus 17 output to PROM
93	IOA0	O	Address bus 0 output to PROM
94	DVSS	—	Ground pin
95	UWA	I	System Controller write strobe Not used in this set. (Open)
96	URD	I	System Controller read strobe Not used in this set. (Open)
97	DVDD18	—	Power Supply pin (+1.8 V)
98	IFSDO	I	DVD SOD signal input from System Controller
99	IFCK	O	DVD SCO signal output to System Controller
100	XIFCS	I	DVD XIFCS signal input from System Controller
101	IFSDI	I	VIFBUSY signal output from System Controller
102	SCL	O	SCL signal output to EEPROM
103	SDA	O	SDA signal output to EEPROM
104	TRG-SW	O	RS232 RXD signal output Not used in this set. (Open)
105	IFBSY	I	RS232 TXD signal input from System Controller
106	RXD	I	RD232 RXD clock
107	TXD	I	RD232 TXD data
108	DVDD3	—	Power Supply pin (+3.3 V)
109	ICE	I	ICE mode enable Not used in this set. (Open)
110	PRST	I	MTRST signal input from System Controller
111	IR	I	IR control signal input Not used in this set. (Open)
112	INT0	I	External interrupt0 Not used in this set. (Open)
113	DQMO	O	DQM0 signal output to SD-RAM
114	MREQ	I	DQM signal input
115	RD7	I	Data bus 7 from SD-RAM
116	DVSS	—	Ground pin
117, 118	RD 6, 5	I	Data bus 6, 5 from SD-RAM

Pin No.	Pin Name	I/O	Pin Description
119	DVSS	—	Ground pin
120, 121	RD 4, 3	I	Data bus 4, 3 from SD-RAM
122	DVDD18	—	Power Supply pin (+1.8 V)
123 to 125	RD 2 to 0	I	Data bus 2 to 0 from SD-RAM
126	RD15	I	Data bus 15 from SD-RAM
127	DVDD3	—	Power Supply pin (+3.3 V)
128	RD 14	I	Data bus 14 from SD-RAM
129 to 133	RD 13 to 9	I	Data bus 13 to 9 from SD-RAM
134	DVSS	—	Ground pin
135	RD8	I	Data bus 8 from SD-RAM
136	GPI0	—	Not used in this set. (Open)
137	DQM1	O	DQM1 signal output to SD-RAM
138	RWE	O	WE signal output to SD-RAM
139	CAS	O	CAS signal output to SD-RAM
140	RAS	O	RAS signal output to SD-RAM
141	DVDD3	—	Power Supply pin (+3.3 V)
142	RCS	O	RCS signal output to SD-RAM
143	BAO	O	BAO signal output to SD-RAM
144	DVSS	—	Ground pin
145	BA1	O	BA1 signal output to SD-RAM
146	RA10	O	Address bus 10 output to SD-RAM
147	RA0	O	Address bus 0 output to SD-RAM
148	DVSS	—	Ground pin
149 to 151	RA 1 to 3	O	Address bus 1 to 3 output to SD-RAM
152	DVDD18	—	Power Supply pin (+1.8 V)
153	NC	—	Not used. (Open)
154	NC	—	Not used. (Open)
155	DVDD3	—	Power Supply pin (+3.3 V)
156	RCLK	O	CLK signal output to SD-RAM
157	CKE	O	CKE signal output to SD-RAM
158 to 160	RA 11 to 8	O	Address bus 11 to 8 output to SD-RAM
161	DVSS	—	Ground pin
162	RA7	O	Address bus 7 output to SD-RAM
163	DVSS	—	Ground pin
164 to 166	RA 6 to 4	O	Address bus 6 to 4 output to SD-RAM
167	DVDD3	—	Power Supply pin (+3.3 V)
168	DISC/X	—	Not used in this set. (Open)
169	RGB	O	RGB control signal output Not used in this set. (Open)
170	TSD M	O	TSDM signal output
171	NC	—	Not used in this set. (Open)
172	NC	—	Not used in this set. (Open)
173	DVDD18	—	Power Supply pin (+1.8 V)
174	FWD	—	Not used in this set. (Open)
175	NC	—	Not used. (Open)
176	LIMSW	O	LIMSW signal output to Optical pick-up
177	OCSW	I	SEN signal input from System Controller/OCSW signal input Not used. (Open)
178	REW	—	Not used in this set. (Open)
179	CKSW	I	CKSW signal input Not used in this set. (Open)
180	NC	—	Not used in this set. (Open)
181	NC	—	Not used in this set. (Open)
182	DVDD3	—	Power Supply pin (+3.3 V)
183	NC	—	Not used in this set. (Open)
184	NC	—	Not used in this set. (Open)

Pin No.	Pin Name	I/O	Pin Description
185	NC	—	Not used in this set. (Open)
186	NC	—	Not used in this set. (Open)
187	NC	—	Not used in this set. (Open)
188	NC	—	Not used in this set. (Open)
189	DAVCC	—	Power Supply pin (+3.3 V)
190	VREF	I	Bandgap reference voltage Not used in this set. (Open)
191	FS	O	Full scale adjustment (pull down)
192	YUV0	—	Not used in this set. (Open)
193	DAVSS	—	Ground pin
194	YUV1	O	Y signal output to VIDEO AMP
195	DAVDD	—	Power Supply pin (+3.3 V)
196	YUV2	O	CHROMA signal output to VIDEO AMP
197	DAVSS	—	Ground pin
198	YUV3	O	VIDEO signal output to VIDEO AMP
199	DAVDD	—	Power Supply pin (+3.3 V)
200	YUV4	O	G signal output to VIDEO AMP
201	DAVSS	—	Ground pin
202	YUV5	O	B signal output to VIDEO AMP
203	YUV6	O	R signal output to VIDEO AMP
204	DVDD3	—	Power Supply pin (+3.3 V)
205	MIC/VSYNC	I	Microphone status signal input
206	VOICE/YUV7	I	Karaoke voice signal input
207	KRMOB/HSYNC	O	Karaoke mode detection signal output
208	SMSCK	I	Karaoke score signal input
209	SPDATA/SMSDI	I	Audio data of SPDIF input
210	MUTE	O	Mute signal output
211	MUTE123	O	Mute signal output
212	DVDD3	—	Power Supply pin (+3.3 V)
213	ALRCK	I	Audio left/right channel clock signal input
214	ABCK	O	Audio bit clock signal output
215	ACLK	I	Audio DAC master clock signal input
216	DVSS	—	Ground pin
217	ASDATA0	O	Audio serial data signal output
218	ASDATA1	O	Audio serial data signal output
219	ASDATA2	O	Audio serial data signal output
220	XRST	O	Reset signal output
221	DVDD18	—	Power Supply pin (+1.8 V)
222	ASDATA4	O	Auio serial data signal output
223	DVSS	—	Ground pin
224	DWIDE	—	Not used in this set. (Open)
225	SDPIF	O	SPDIF signal output
226	RFGND18	—	Ground pin
227	RFVDD18	—	Power Supply pin (+1.8 V)
228	XTALO	O	Oscillator signal output (27 MHz)
229	XTALI	I	Oscillator signal input (27 MHz)
230	JITFO	O	RF jitter meter output
231	JITFN	I	Negative input of operation amplifier for RF jigger meter
232	PLLVSS	—	Ground pin
233	IDAC	—	Not Used.
234	PLLVDD3	—	Power Supply pin (+3.3 V)
235	LPFON	O	Negative output of loop filter amplifier
236	LPFIP	I	Positive input of loop filter amplifier
237	LPFIN	I	Negative input of loop filter amplifier

Pin No.	Pin Name	I/O	Pin Description
238	LPFOP	O	Positive output of loop filter amplifier
239	VDD3	I	Power Supply pin (+3.3 V)
240	NC	—	Not used. (Open)
241	VSS	—	Ground pin
242	NC	—	Not used. (Open)
243	NC	—	Not used. (Open)
244	RFVDD3	—	Power Supply pin (+3.3 V)
245	RFRPDC	I	RFRP signal input
246	RFRPAC	I	RFRP signal input
247	HRFZC	I	High frequency RF ripple zero crossing
248	CRTPLP	O	Defect level filter capacitor connecting
249	RFGND	—	Ground pin
250	NC	—	Not used. (Open)
251	NC	—	Not used. (Open)
252	OSP	O	RF offset cancellation capacitor connecting
253	OSN	I	RF offset cancellation capacitor connecting
254	RFGC	O	RF offset loop capacitor connecting for DVD-ROM
255	IREF	I	Current reference input
256	AVDD3	—	Power Supply pin (+3.3 V)

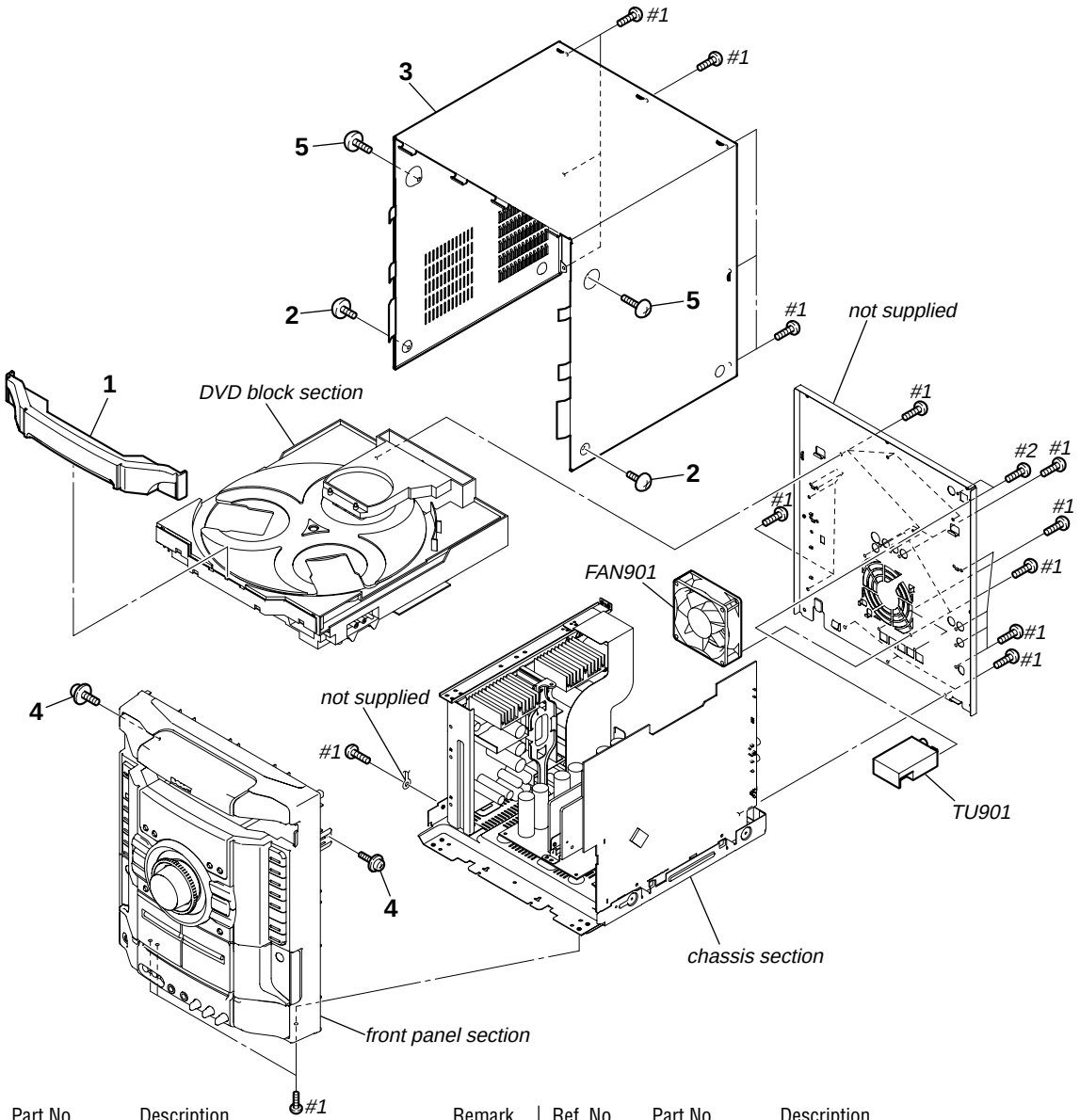
SECTION 7
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Accessories are given in the last of this parts list.

- Abbreviation
  E3 : 240 V AC area in E model
  E12 : 220-240 V AC area in E model
  E13 : Russian model
  E15 : Iran model
  EA : Saudi Arabia model
  PH : Philippine model
  SP : Singapore model
  TH : Thai model

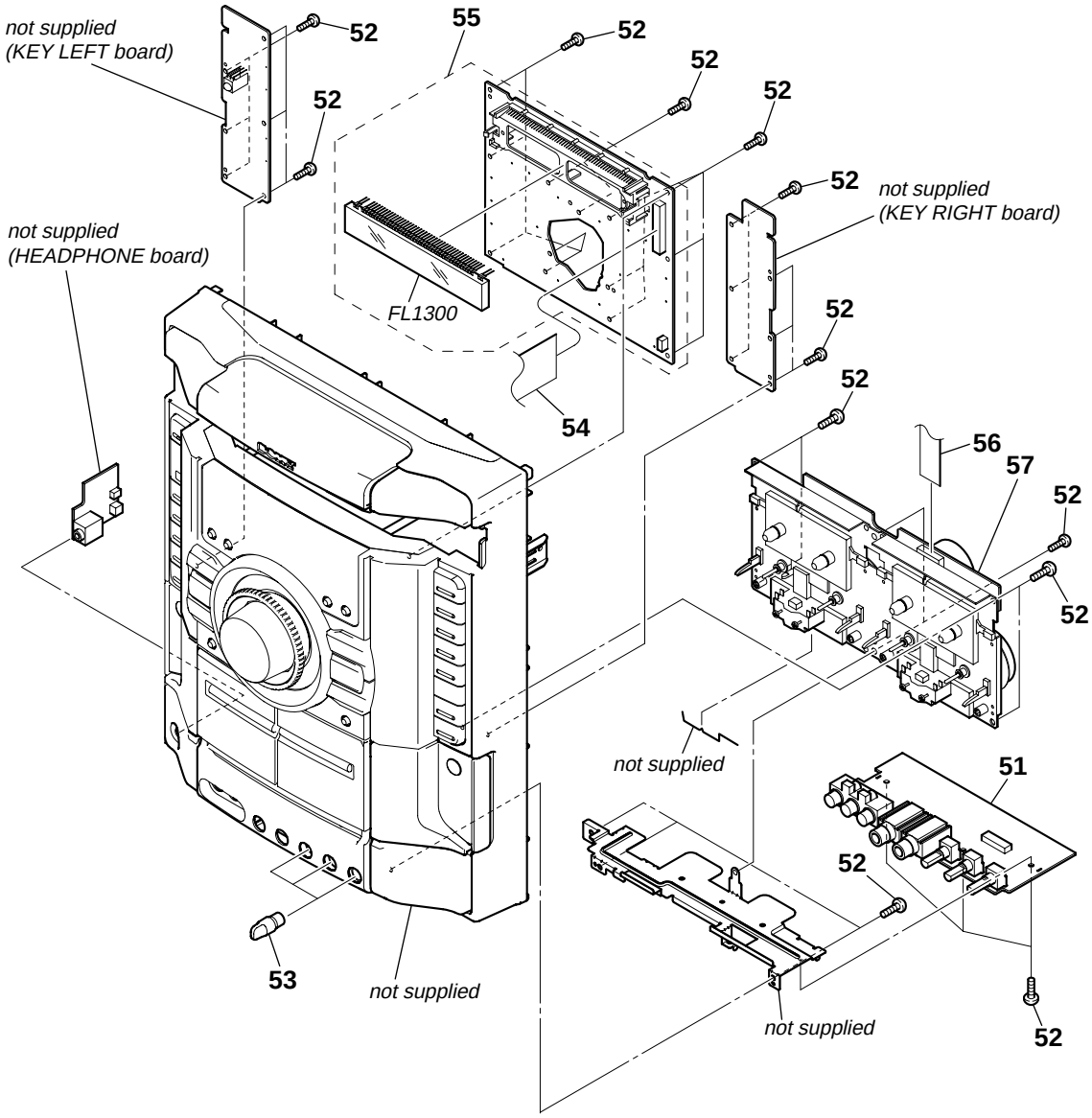
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

7-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
1	2-898-516-01	PANEL, LOADING (EXCEPT GNZ777D:E13/GNZ888D)	
1	2-898-516-11	PANEL, LOADING (GNZ888D)	
1	2-898-516-21	PANEL, LOADING (GNZ777D:E13)	
2	3-363-099-02	SCREW (CASE 3 TP2)	
3	2-898-762-01	CASE	
4	3-703-136-12	SCREW, TAPPING	
5	3-363-099-32	SCREW (CASE 3 TP2)	
FAN901	1-787-400-11	D.C. FAN	
TU901	1-693-734-11	TUNER (FM/AM) (ANTENNA)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-862-09	SCREW +BVTT 2.6X6 (S)	

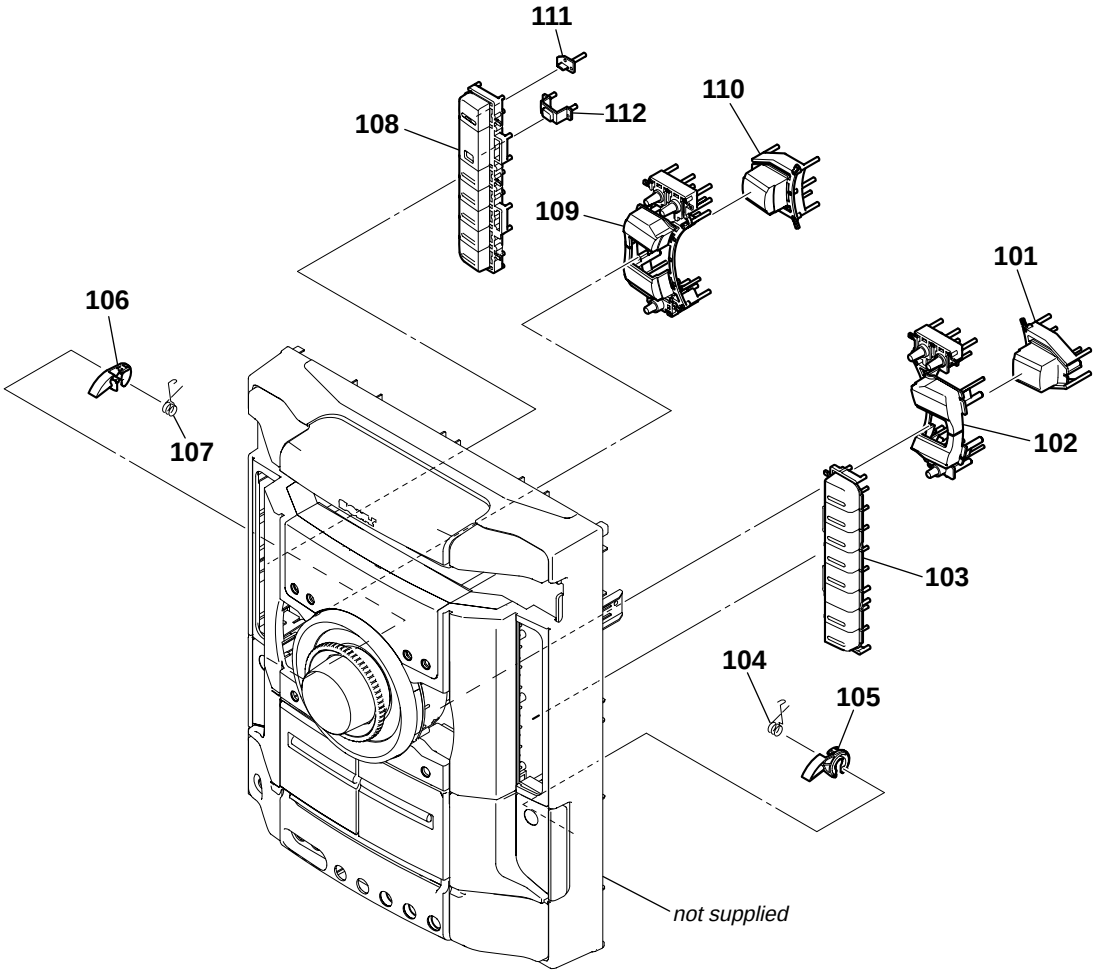
7-2. FRONT PANEL SECTION (1)



Ref. No.	Part No.	Description	Remark
51	A-1225-297-A	MIC BOARD, COMPLETE	
52	3-087-053-01	+BVTP 2.6 (3CR)	
53	2-638-220-11	KNOB (MIC)	
54	1-832-896-21	CABLE, FLEXIBLE FLAT (25 CORE)	

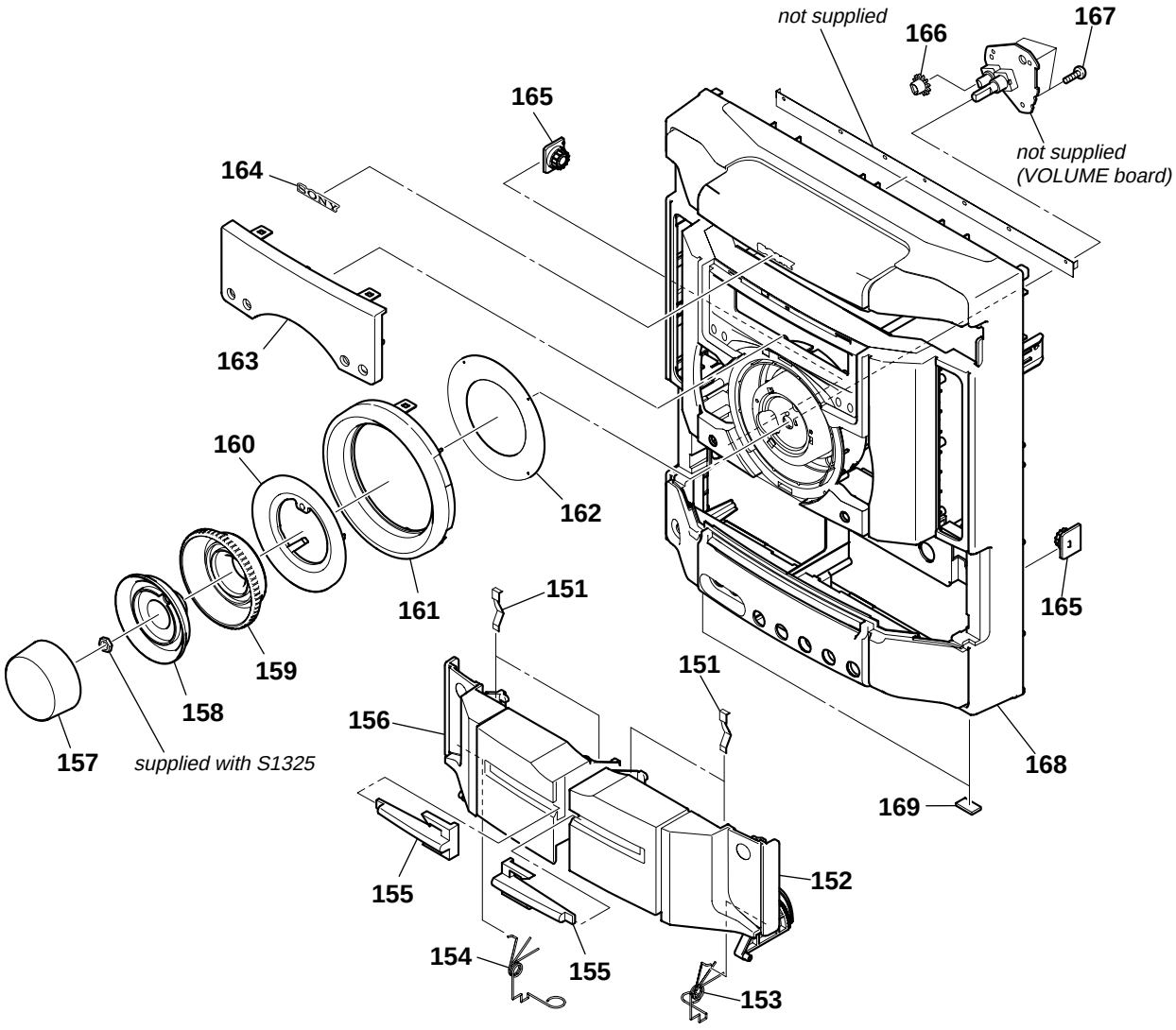
Ref. No.	Part No.	Description	Remark
55	A-1225-293-A	DISPLAY BOARD, COMPLETE	
56	1-827-720-11	WIRE (FLAT TYPE) (11 CORE)	
57	1-417-657-11	DECK, MECHA	
FL1300	1-519-926-11	INDICATOR TUBE, FLUORESCENT	

7-3. FRONT PANEL SECTION (2)



Ref. No.	Part No.	Description	Remark
101	2-897-536-01	BUTTON (CENTER-B-R)	
102	2-897-538-01	BUTTON (CENTER-A-R)	
103	2-897-542-01	BUTTON (DISC)	
104	4-231-841-01	SPRING (HEART CAM-B)	
105	4-231-825-01	CAM (B), HEART	
106	4-231-824-01	CAM (A), HEART	
107	4-231-836-01	SPRING (HEART CAM-A)	
108	2-897-543-01	BUTTON (POWER-DVD)	
109	2-897-539-01	BUTTON (CENTER-A-L)	
110	2-897-537-01	BUTTON (CENTER-B-L)	
111	2-892-139-01	INDICATOR (POWER)	
112	2-892-158-01	WINDOW (SENSOR)	

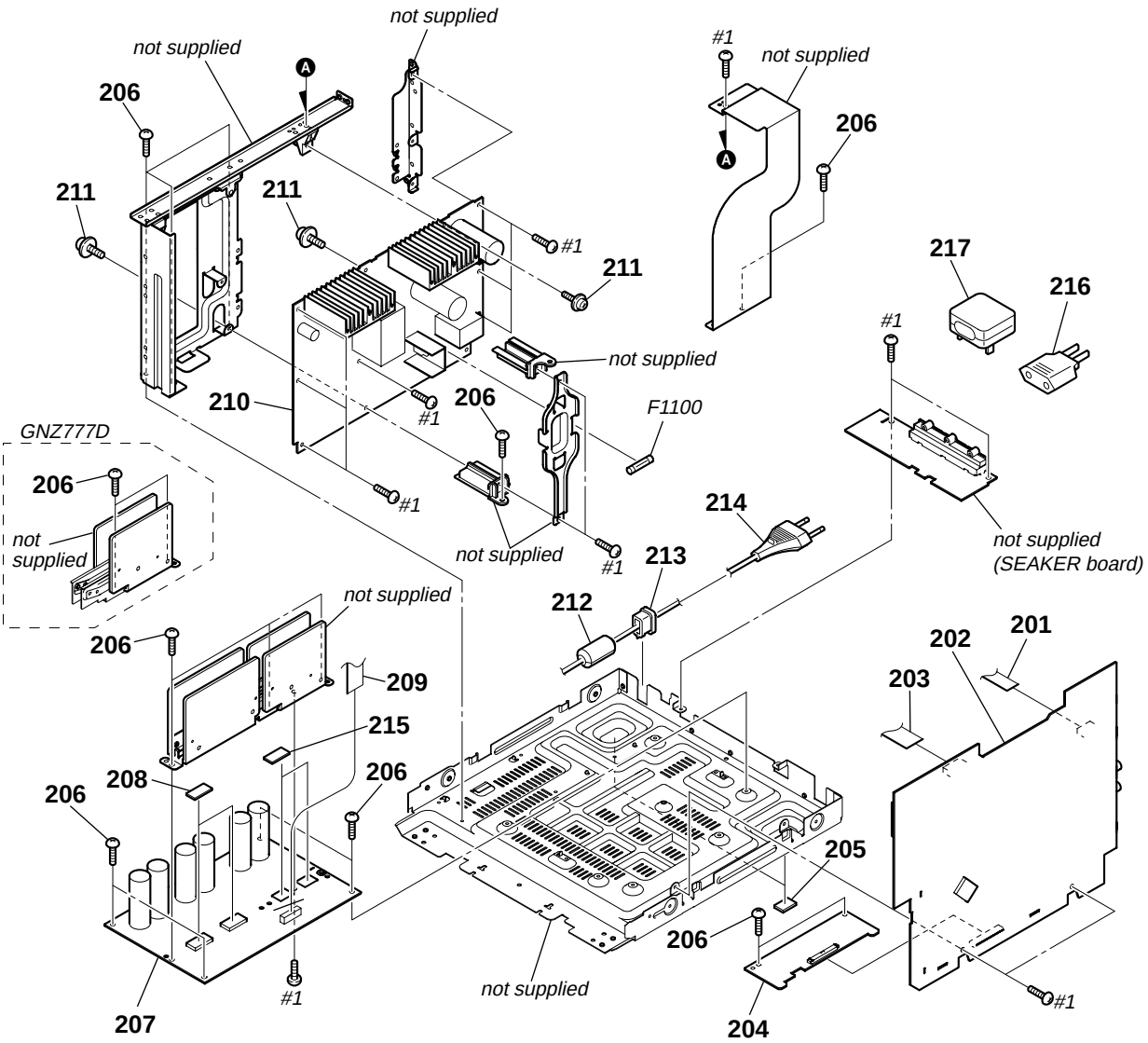
7-4. FRONT PANEL SECTION (3)



Ref. No.	Part No.	Description	Remark
151	2-669-613-01	SPRING, DETENT	
152	2-897-544-01	LID (TC-R-DVD)	
153	2-892-300-01	SPRING (TC-R)	
154	2-892-299-01	SPRING (TC-L)	
155	2-892-129-01	WINDOW (TC)	
156	2-897-545-01	LID (TC-L-DVD)	
157	2-892-152-01	KNOB (VOL)	
158	2-892-153-01	PLATE (VOL)	
159	2-892-154-01	KNOB (JOG)	
160	2-892-145-01	REFLECTOR (LED-DVD)	
161	2-892-151-01	RING (CENTER-DVD) (GNZ777D)	
161	2-892-151-11	RING (CENTER-DVD) (GNZ888D)	

Ref. No.	Part No.	Description	Remark
162	2-892-157-01	SHEET (LED-DVD)	
163	2-892-142-01	WINDOW (DISPLAY)	
164	4-217-485-21	EMBLEM (5-A), SONY	
165	4-224-104-41	DAMPER	
166	2-892-155-01	GEAR (JOG)	
167	3-087-053-01	+BVTP 2.6 (3CR)	
168	2-897-546-01	PANEL, FRONT (DVD) (EXCEPT GNZ777D:E13/GNZ888D)	
168	2-897-546-11	PANEL, FRONT (DVD) (GNZ888D)	
168	2-897-546-21	PANEL, FRONT (DVD) (GNZ777D:E13)	
169	4-225-252-01	CUSHION (FOOT)	

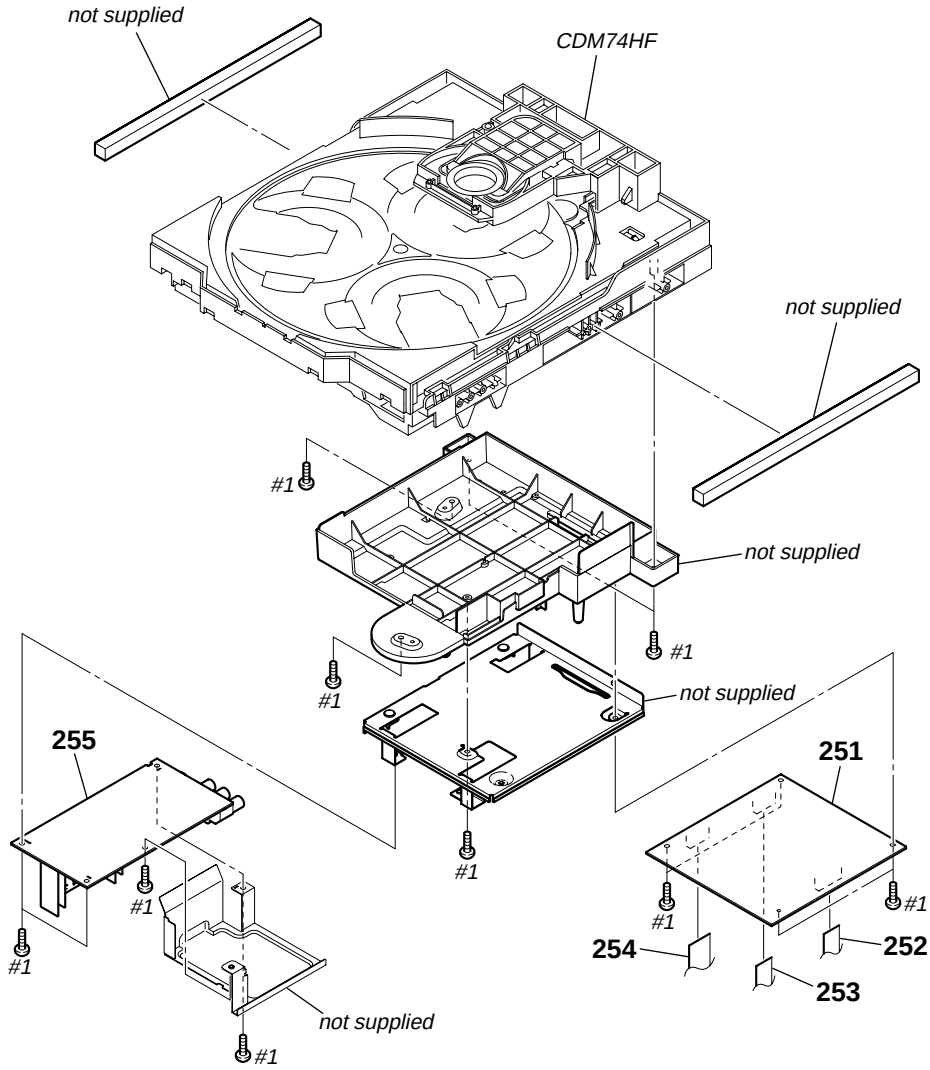
7-5. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
201	1-832-814-21	CABLE, FLEXIBLE FLAT (9 CORE)	
202	A-1225-300-A	MAIN BOARD, COMPLETE (GNZ777D:E3,E15)	
202	A-1225-314-A	MAIN BOARD, COMPLETE (GNZ888D:E3,E15)	
202	A-1258-318-A	MAIN BOARD, COMPLETE (GNZ777D:EA)	
202	A-1258-321-A	MAIN BOARD, COMPLETE (GNZ777D:E12)	
202	A-1258-324-A	MAIN BOARD, COMPLETE (GNZ777D:E13)	
202	A-1258-327-A	MAIN BOARD, COMPLETE (GNZ777D:PH,SP,TH)	
202	A-1258-330-A	MAIN BOARD, COMPLETE (GNZ888D:EA)	
202	A-1258-333-A	MAIN BOARD, COMPLETE (GNZ888D:E12)	
202	A-1258-339-A	MAIN BOARD, COMPLETE (GNZ888D:PH,SP,TH)	
203	1-828-973-11	WIRE (FLAT TYPE) (13 CORE)	
204	A-1225-461-A	ADC BOARD, COMPLETE (GNZ777D)	
204	A-1225-536-A	ADC BOARD, COMPLETE (GNZ888D)	
205	4-225-252-01	CUSHION (FOOT)	
206	3-077-331-21	+BV 3 (3-CR)	
207	A-1225-455-A	SMASTER BOARD, COMPLETE (GNZ777D)	
207	A-1225-532-A	SMASTER BOARD, COMPLETE (GNZ888D)	
208	2-597-972-91	SHEET, RADIATION (GNZ888D)	
209	1-828-985-11	WIRE (FLAT TYPE) (15 CORE) (GNZ777D)	

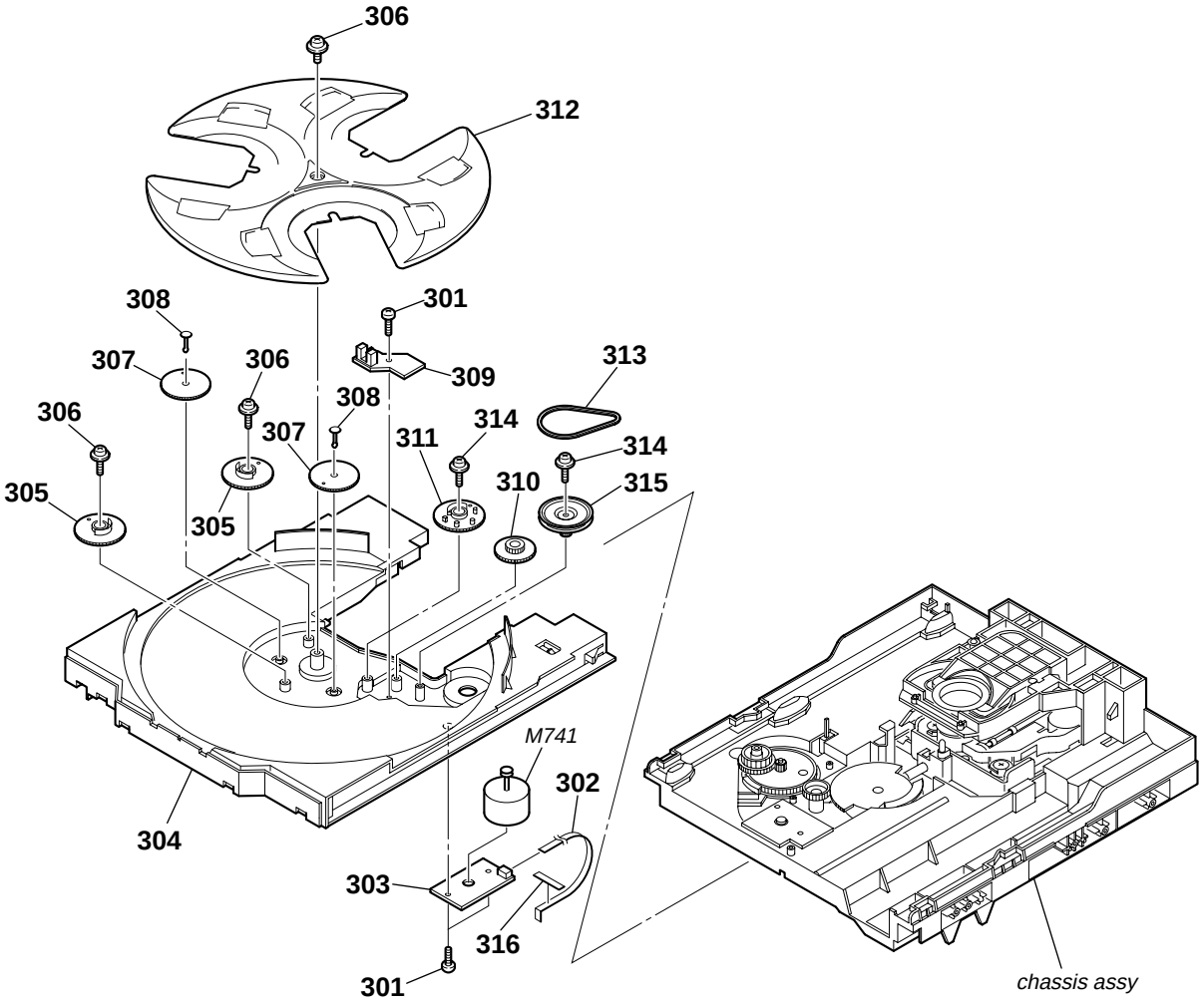
Ref. No.	Part No.	Description	Remark
209	1-828-995-11	WIRE (FLAT TYPE) (17 CORE) (GNZ888D)	
210	A-1225-308-A	POWER BOARD, COMPLETE	(GNZ777D:E3,E15,PH,SP)
210	A-1225-319-A	POWER BOARD, COMPLETE	(GNZ888D:E3,E15,PH,SP)
210	A-1258-346-A	POWER BOARD, COMPLETE (GNZ777D:EA)	
210	A-1258-349-A	POWER BOARD, COMPLETE	(GNZ777D:E12,E13,TH)
210	A-1258-352-A	POWER BOARD, COMPLETE (GNZ888D:EA)	
210	A-1258-355-A	POWER BOARD, COMPLETE (GNZ888D:E12,TH)	
211	3-703-136-12	SCREW, TAPPING	
212	1-457-369-11	CORE, FERRITE	
213	3-703-244-00	BUSHING (2104), CORD	
⚠214	1-777-071-83	CORD, POWER	
215	2-597-972-91	SHEET, RADIATION	
⚠216	1-569-008-22	ADAPTOR, CONVERSION 2P (E3,E15,PH,SP,EA)	
⚠217	1-770-019-61	ADAPTOR, CONVERSION PLUG (EA)	
⚠F1100	1-532-506-33	FUSE (6.3A/250V)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

7-6. DVD BLOCK SECTION



Ref. No.	Part No.	Description	Remark
251	A-1258-007-A	DMB16 BOARD, COMPLETE (GNZ888D:E3,E15)	
251	A-1258-008-A	DMB16 BOARD, COMPLETE (GNZ777D:E3,E15)	
251	A-1258-399-A	DMB16 BOARD, COMPLETE (GNZ888D:PH,SP,TH)	
251	A-1258-400-A	DMB16 BOARD, COMPLETE (GNZ888D:E12)	
251	A-1258-402-A	DMB16 BOARD, COMPLETE (GNZ777D:PH,SP,TH)	
251	A-1258-403-A	DMB16 BOARD, COMPLETE (GNZ777D:E12)	
251	A-1258-404-A	DMB16 BOARD, COMPLETE (GNZ777D:E13)	
251	A-1315-818-A	DMB16 BOARD, COMPLETE (GNZ777D:EA)	
251	A-1315-860-A	DMB16 BOARD, COMPLETE (GNZ888D:EA)	
252	1-828-589-11	WIRE (FLAT TYPE) (13 CORE)	
253	1-828-326-11	WIRE (FLAT TYPE) (13 CORE)	
254	1-828-623-11	WIRE (FLAT TYPE) (19 CORE)	
255	A-1225-305-A	VIDEO BOARD, COMPLETE	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

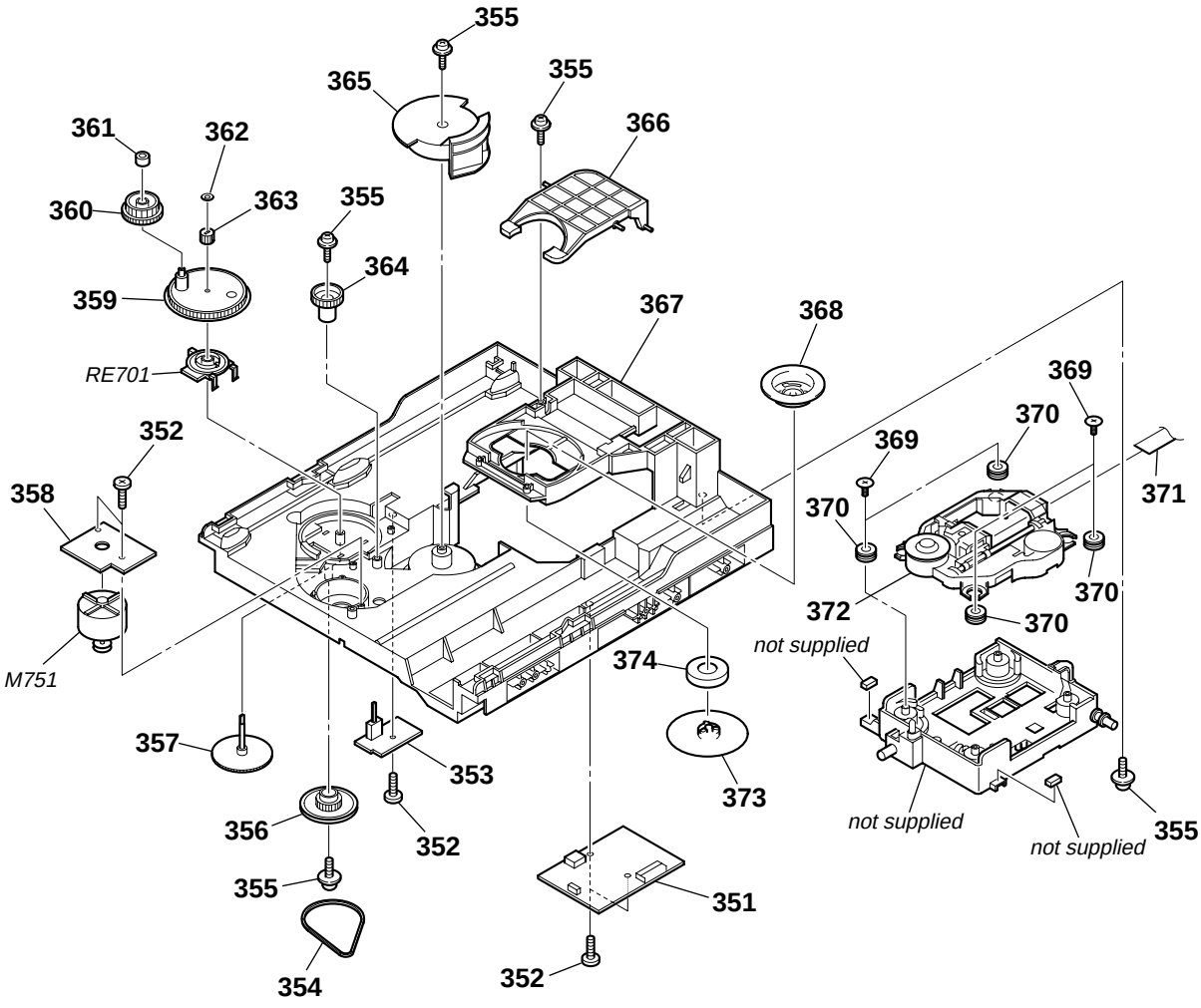
7-7. DVD MECHANISM DECK SECTION (1)



Ref. No.	Part No.	Description	Remark
301	4-218-253-62	SCREW (M2.6), +BTTP	
302	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
303	1-687-134-12	MOTOR (TB) BOARD	
304	4-243-815-11	TABLE (LOADING)	
305	4-245-571-02	GEAR (STOPPER)	
306	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING	
307	4-245-570-01	GEAR (JOINT)	
308	4-245-572-01	BUSHING (GEAR)	
309	1-687-132-12	SENSOR BOARD	

Ref. No.	Part No.	Description	Remark
310	4-243-820-01	GEAR (TABLE)	
311	4-243-819-01	GEAR (GENEVA)	
312	4-243-816-21	TRAY	
313	4-243-823-01	BELT (TABLE)	
314	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
315	4-243-821-01	PULLEY (TABLE)	
316	3-231-598-01	SHEET (BA)	
M741	A-1108-965-A	MOTOR ASSY, TABLE (TABLE)	

7-8. DVD MECHANISM DECK SECTION (2)



Ref. No.	Part No.	Description	Remark
351	A-1103-756-B	DRIVER BOARD, COMPLETE	
352	4-218-253-52	SCREW (M2.6), +BTTP	
353	1-687-669-12	SW BOARD	
354	4-244-034-01	BELT (LOADING)	
355	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
356	4-225-844-01	GEAR (LOADING A)	
357	4-224-613-11	GEAR (SHAFT)	
358	1-687-133-12	MOTOR (LD) BOARD	
359	4-244-108-01	GEAR, SWING	
360	4-224-609-01	GEAR (LOADING C)	
361	4-224-608-01	COLLAR, SWING	
362	3-016-533-11	WASHER (FR), STOPPER	
363	4-224-611-01	GEAR (LOADING B)	
364	4-224-606-01	GEAR (RV)	
365	4-243-818-01	GEAR (U/D)	
366	2-541-918-01	LEVER (LIFTER (H))	
367	4-243-817-22	CHASSIS	
368	2-345-983-01	PULLEY B (310), CHUCKING	
369	3-087-599-01	SCREW, INSULATOR	
370	2-634-618-01	INSULATOR	
371	1-828-772-51	WIRE (FLAT TYPE) (24 CORE)	
⚠372	8-820-322-04	OPTICAL PICK-UP (KHM313CAB/C2RP)	
373	2-345-982-01	PULLEY A (310), CHUCKING	
374	4-251-923-01	YOKE (310)	
M751	A-1108-966-A	MOTOR ASSY, LOADING (LOADING)	
RE701	1-477-680-12	ENCODER, ROTARY	

ADC

SECTION 8
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

- Abbreviation
  E3 : 240 V AC area in E model
  E12 : 220-240 V AC area in E model
  E13 : Russian model
  E15 : Iran model
  EA : Saudi Arabia model
  PH : Philippine model
  SP : Singapore model
  TH : Thai model

Ref. No.	Part No.	Description			Remark
	A-1225-461-A	ADC BOARD, COMPLETE (GNZ777D)			
	A-1225-536-A	ADC BOARD, COMPLETE (GNZ888D)			
		**********			
		< CAPACITOR >			
C20	1-126-933-11	ELECT	100uF	20%	16V (GNZ888D)
C20	1-126-956-11	ELECT	0.1uF	20%	50V (GNZ777D)
C22	1-104-658-11	ELECT	100uF	20%	10V
C23	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C24	1-104-658-11	ELECT	100uF	20%	10V
C25	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C26	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C27	1-126-963-11	ELECT	4.7uF	20%	50V
C28	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C29	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C32	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C40	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C41	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C42	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C50	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C51	1-126-964-11	ELECT	10uF	20%	50V
C53	1-104-658-11	ELECT	100uF	20%	10V
C54	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C55	1-126-964-11	ELECT	10uF	20%	50V
C56	1-135-834-11	CERAMIC CHIP	2200uF		6.3V
C58	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C59	1-126-960-11	ELECT	1uF	20%	50V
C60	1-126-960-11	ELECT	1uF	20%	50V
C61	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GNZ888D)
C62	1-126-964-11	ELECT	10uF	20%	50V (GNZ888D)
C63	1-126-964-11	ELECT	10uF	20%	50V (GNZ888D)
C64	1-135-834-11	CERAMIC CHIP	2200uF		6.3V (GNZ888D)
C66	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GNZ888D)
C67	1-104-658-11	ELECT	100uF	20%	10V (GNZ888D)
C68	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GNZ888D)
C69	1-126-960-11	ELECT	1uF	20%	50V (GNZ888D)
C70	1-126-960-11	ELECT	1uF	20%	50V (GNZ888D)
C71	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GNZ888D)
C72	1-126-964-11	ELECT	10uF	20%	50V (GNZ888D)
C73	1-126-964-11	ELECT	10uF	20%	50V (GNZ888D)
C74	1-135-834-11	CERAMIC CHIP	2200uF		6.3V (GNZ888D)
C76	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GNZ888D)
C77	1-104-658-11	ELECT	100uF	20%	10V (GNZ888D)
C78	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GNZ888D)
C79	1-126-960-11	ELECT	1uF	20%	50V (GNZ888D)
C80	1-126-960-11	ELECT	1uF	20%	50V (GNZ888D)
C81	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C90	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C91	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C92	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ888D)
C93	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ888D)
C94	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ888D)
C95	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ888D)
		< CONNECTOR >			
CN1	1-766-719-41	CONNECTOR, BOARD TO BOARD 10P (GNZ777D)			
CN1	1-766-720-41	CONNECTOR, BOARD TO BOARD 17P (GNZ888D)			
		< DIODE >			
D11	6-500-848-01	DIODE MC2840-T112-1			
D13	6-500-848-01	DIODE MC2840-T112-1			
D51	6-500-335-01	DIODE MC2838-T112-1			
D61	6-500-335-01	DIODE MC2838-T112-1 (GNZ888D)			
D71	6-500-335-01	DIODE MC2838-T112-1 (GNZ888D)			
		< FILTER >			
FL1	1-234-494-21	FILTER, EMI REMOVAL (SMD)			
FL2	1-234-494-21	FILTER, EMI REMOVAL (SMD)			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC1	6-708-974-01	IC NJM2845DL1-05			
IC2	6-711-315-01	IC NJM2845DL1-33-TE1			
IC3	8-759-242-70	IC TC7WU04F			
IC11	6-710-840-01	IC AK5358AET-E2			
IC12	6-710-840-01	IC AK5358AET-E2 (GNZ888D)			
IC13	6-710-840-01	IC AK5358AET-E2 (GNZ888D)			
		< RESISTOR >			
JR51	1-216-806-11	METAL CHIP	56	5%	1/10W
JR52	1-216-806-11	METAL CHIP	56	5%	1/10W
		< COIL >			
L1	1-412-939-11	INDUCTOR	1uH		
L2	1-412-951-11	INDUCTOR	10uH		
L3	1-412-951-11	INDUCTOR	10uH		
		< RESISTOR >			
R13	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ888D)
R15	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ888D)
R17	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ888D)
R19	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ888D)
R21	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ888D)
R23	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ888D)
R25	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R27	1-216-845-11	METAL CHIP	100K	5%	1/10W
R29	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R31	1-216-845-11	METAL CHIP	100K	5%	1/10W
R36	1-216-864-11	SHORT CHIP	0		
R38	1-216-864-11	SHORT CHIP	0		
R40	1-216-821-11	METAL CHIP	1K	5%	1/10W
R41	1-216-857-11	METAL CHIP	1M	5%	1/10W
R50	1-216-864-11	SHORT CHIP	0		
R51	1-216-864-11	SHORT CHIP	0		
R52	1-216-809-11	METAL CHIP	100	5%	1/10W
R53	1-216-809-11	METAL CHIP	100	5%	1/10W
R56	1-216-864-11	SHORT CHIP	0 (GNZ888D)		
R57	1-216-864-11	SHORT CHIP	0 (GNZ888D)		
R58	1-216-864-11	SHORT CHIP	0		
R59	1-216-864-11	SHORT CHIP	0		
R60	1-216-864-11	SHORT CHIP	0 (GNZ888D)		
R62	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R63	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R64	1-216-864-11	SHORT CHIP	0 (GNZ888D)		
R66	1-216-864-11	SHORT CHIP	0 (GNZ888D)		
R67	1-216-864-11	SHORT CHIP	0		
R70	1-216-864-11	SHORT CHIP	0 (GNZ888D)		
R71	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)

Ref. No.	Part No.	Description			Remark
R72	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
		< VIBRATOR >			
X1	1-795-843-11	VIBRATOR, CRYSTAL (12.288MHz)			
**********					
	A-1225-293-A	DISPLAY BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1300	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1315	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1316	1-124-261-00	ELECT	10uF	20%	50V
C1317	1-126-157-11	ELECT	10uF	20%	16V
C1319	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1320	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1321	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1322	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1323	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1324	1-128-131-11	ELECT	22uF	20%	50V
C1325	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C1326	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1327	1-126-969-11	ELECT	220uF	20%	50V
C1328	1-162-974-11	CERAMIC CHIP	0.01uF		50V
		< CONNECTOR >			
CN1300	1-784-786-11	CONNECTOR, FFC 25P			
CN1302	1-785-331-11	PIN, CONNECTOR (LIGHT ANGLE) 5P			
		< DIODE >			
D1300	8-719-404-50	DIODE MA111-TX			
D1301	8-719-073-69	DIODE PTZ-TE25-6.2A			
D1302	6-500-334-01	DIODE MC2836-T112-1			
D1303	6-500-335-01	DIODE MC2838-T112-1			
D1304	6-501-691-01	LED 1L434FV22D0TDF01 (RING ILLUMINATION)			
D1305	6-501-691-01	LED 1L434FV22D0TDF01 (RING ILLUMINATION)			
D1306	6-501-691-01	LED 1L434FV22D0TDF01 (RING ILLUMINATION)			
D1307	6-501-691-01	LED 1L434FV22D0TDF01 (RING ILLUMINATION)			
D1308	6-501-691-01	LED 1L434FV22D0TDF01 (RING ILLUMINATION)			
D1309	6-501-691-01	LED 1L434FV22D0TDF01 (RING ILLUMINATION)			
		< FLUORESCENT INDICATOR TUBE >			
FL1300	1-519-926-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC1300	6-709-115-01	IC NJU3427FA2			
		< COIL >			
L1300	1-410-671-31	INDUCTOR	47uH		

DISPLAY

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q1300	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q1301	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q1302	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q1303	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q1304	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q1305	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q1306	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q1307	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q1308	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q1309	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q1310	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q1311	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q1312	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q1313	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q1314	6-550-065-01	FET CPH5504-TL-E			
Q1315	8-729-920-79	TRANSISTOR 2SB1132-T100-QR			
Q1316	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1317	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1318	8-729-920-79	TRANSISTOR 2SB1132-T100-QR			
Q1319	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1320	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1321	8-729-027-43	TRANSISTOR DTC114EKA-T146			
		< RESISTOR >			
R1300	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1301	1-216-817-11	METAL CHIP	470	5%	1/10W
R1302	1-216-817-11	METAL CHIP	470	5%	1/10W
R1303	1-216-817-11	METAL CHIP	470	5%	1/10W
R1304	1-216-817-11	METAL CHIP	470	5%	1/10W
R1305	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1306	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1307	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1308	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1309	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1310	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1311	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1312	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1313	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1314	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1315	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1316	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1317	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1318	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1319	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1320	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1321	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1322	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1323	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1324	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1325	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1326	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1327	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1328	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1329	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1330	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1331	1-216-841-11	METAL CHIP	47K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1332	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1333	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1334	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1335	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1336	1-216-809-11	METAL CHIP	100	5%	1/10W
R1337	1-216-809-11	METAL CHIP	100	5%	1/10W
⚠R1338	1-215-871-11	METAL OXIDE	2.2K	5%	1W F
R1340	1-216-809-11	METAL CHIP	100	5%	1/10W
R1341	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1342	1-216-817-11	METAL CHIP	470	5%	1/10W
R1343	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1345	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1346	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1348	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1349	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1351	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1352	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1354	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1355	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1357	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1358	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1360	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1361	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1363	1-216-815-11	METAL CHIP	330	5%	1/10W
R1364	1-216-817-11	METAL CHIP	470	5%	1/10W
R1365	1-216-819-11	METAL CHIP	680	5%	1/10W
R1366	1-216-815-11	METAL CHIP	330	5%	1/10W
R1367	1-216-817-11	METAL CHIP	470	5%	1/10W
R1368	1-216-819-11	METAL CHIP	680	5%	1/10W
R1369	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1370	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1371	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< SWITCH >			
S1300	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)			
S1301	1-762-875-21	SWITCH, KEYBOARD (SOUND FIELD)			
S1302	1-762-875-21	SWITCH, KEYBOARD (PRESET EQ)			
S1303	1-762-875-21	SWITCH, KEYBOARD (GROOVE)			
S1304	1-762-875-21	SWITCH, KEYBOARD (ILLUMINATION)			
S1305	1-762-875-21	SWITCH, KEYBOARD (EQ BAND/MEMORY)			
S1306	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)			
S1307	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)			
S1308	1-762-875-21	SWITCH, KEYBOARD (TUNING + ▶▶ ▮►)			
S1309	1-762-875-21	SWITCH, KEYBOARD (◀►)			
S1310	1-762-875-21	SWITCH, KEYBOARD (TUNING – ◀◀ ◄▮)			
S1311	1-762-875-21	SWITCH, KEYBOARD (DIRECTION)			
		< TRANSFORMER >			
T1300	1-443-894-11	TRANSFORMER, DC/DC CONVERTER			

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Ref. No.	Part No.	Description			Remark
	A-1258-007-A	DMB16 BOARD, COMPLETE (GNZ888D:E3,E15)			
	A-1258-008-A	DMB16 BOARD, COMPLETE (GNZ777D:E3,E15)			
	A-1258-399-A	DMB16 BOARD, COMPLETE (GNZ888D:PH,SP,TH)			
	A-1258-400-A	DMB16 BOARD, COMPLETE (GNZ888D:E12)			
	A-1258-402-A	DMB16 BOARD, COMPLETE (GNZ777D:PH,SP,TH)			
	A-1258-403-A	DMB16 BOARD, COMPLETE (GNZ777D:E12)			
	A-1258-404-A	DMB16 BOARD, COMPLETE (GNZ777D:E13)			
	A-1315-818-A	DMB16 BOARD, COMPLETE (GNZ777D:EA)			
	A-1315-860-A	DMB16 BOARD, COMPLETE (GNZ888D:EA)			
		**********			
		< CAPACITOR >			
C101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C102	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C105	1-126-947-11	ELECT	47uF	20%	35V
C106	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C108	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C109	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C112	1-126-947-11	ELECT	47uF	20%	35V
C113	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C115	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C117	1-126-964-11	ELECT	10uF	20%	50V
C118	1-126-964-11	ELECT	10uF	20%	50V
C119	1-126-964-11	ELECT	10uF	20%	50V
C120	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C121	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C122	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C123	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C124	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C127	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C128	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C129	1-126-964-11	ELECT	10uF	20%	50V
C130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C131	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C135	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C136	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C137	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C138	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C139	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C140	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C144	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C146	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C147	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C148	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C149	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C150	1-126-964-11	ELECT	10uF	20%	50V
C151	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C152	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C153	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C154	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C155	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C158	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C159	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C161	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C162	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C163	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C164	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C167	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C170	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C171	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C172	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C173	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C174	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C175	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C176	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C177	1-126-947-11	ELECT	47uF	20%	35V
C178	1-126-947-11	ELECT	47uF	20%	35V
C179	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C180	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C181	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C182	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C184	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C187	1-126-947-11	ELECT	47uF	20%	35V
C188	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C189	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C190	1-126-947-11	ELECT	47uF	20%	35V
C191	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C192	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C193	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C195	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C196	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C203	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C205	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C206	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C208	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C209	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C210	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C211	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C212	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C213	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C214	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C215	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C217	1-126-947-11	ELECT	47uF	20%	35V
C218	1-126-964-11	ELECT	10uF	20%	50V
C219	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C220	1-126-964-11	ELECT	10uF	20%	50V
C221	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C222	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C233	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C301	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C302	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C305	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C306	1-104-658-11	ELECT	100uF	20%	10V
C307	1-104-658-11	ELECT	100uF	20%	10V
C402	1-126-947-11	ELECT	47uF	20%	35V
C403	1-126-947-11	ELECT	47uF	20%	35V

Ref. No.	Part No.	Description			Remark
C3701	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3702	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3703	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C3704	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C3705	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C3706	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C3707	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3708	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3711	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3712	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3713	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3714	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3721	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3722	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3723	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3724	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3731	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V (GNZ888D)
C3732	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ888D)
C3733	1-162-961-11	CERAMIC CHIP	330PF	10%	50V (GNZ888D)
C3734	1-162-961-11	CERAMIC CHIP	330PF	10%	50V (GNZ888D)
C3741	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V (GNZ888D)
C3742	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ888D)
C3743	1-162-961-11	CERAMIC CHIP	330PF	10%	50V (GNZ888D)
C3744	1-162-961-11	CERAMIC CHIP	330PF	10%	50V (GNZ888D)
C3751	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V (GNZ888D)
C3752	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ888D)
C3753	1-162-961-11	CERAMIC CHIP	330PF	10%	50V (GNZ888D)
C3754	1-162-961-11	CERAMIC CHIP	330PF	10%	50V (GNZ888D)
C3761	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V (GNZ888D)
C3762	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ888D)
C3763	1-162-961-11	CERAMIC CHIP	330PF	10%	50V (GNZ888D)
C3764	1-162-961-11	CERAMIC CHIP	330PF	10%	50V (GNZ888D)
C3771	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3772	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3773	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3774	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3781	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C3782	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C3783	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3784	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C3801	1-104-658-11	ELECT	100uF	20%	10V
C3802	1-117-370-11	CERAMIC CHIP	10uF		10V
C3803	1-104-658-11	ELECT	100uF	20%	10V
C3804	1-126-947-11	ELECT	47uF	20%	35V
C3805	1-126-947-11	ELECT	47uF	20%	35V
		< CONNECTOR >			
CN101	1-815-763-32	CONNECTOR, FFC/FPC 24P			
* CN105	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P			
CN109	1-779-281-11	CONNECTOR, FFC (LIF(NON-ZIF)) 13P			
* CN201	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P			
CN302	1-779-281-11	CONNECTOR, FFC (LIF(NON-ZIF)) 13P			
CN313	1-779-287-11	CONNECTOR, FFC (LIF(NON-ZIF)) 19P			
CN401	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
		< DIODE >			
D1001	8-719-058-24	DIODE RB501V-40TE-17			
D3501	6-501-579-01	DIODE MC2837			
		< TERMINAL BOARD >			
ET001	1-537-771-21	TERMINAL BOARD, GROUND			
ET002	1-537-771-21	TERMINAL BOARD, GROUND			
ET003	1-537-771-21	TERMINAL BOARD, GROUND			
		< FERRITE BEAD >			
FB111	1-414-226-21	INDUCTOR, FERRITE BEAD			
FB112	1-414-226-21	INDUCTOR, FERRITE BEAD			
FB113	1-414-226-21	INDUCTOR, FERRITE BEAD			
FB114	1-414-226-21	INDUCTOR, FERRITE BEAD			
FB115	1-414-226-21	INDUCTOR, FERRITE BEAD			
FB401	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB402	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB403	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB404	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB405	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB406	1-469-324-21	FERRITE, EMI (SMD) (2012)			
		< FILTER >			
FL101	1-234-177-21	FILTER, CHIP EMI			
FL104	1-234-177-21	FILTER, CHIP EMI			
FL105	1-234-177-21	FILTER, CHIP EMI			
FL106	1-234-177-21	FILTER, CHIP EMI			
FL107	1-234-177-21	FILTER, CHIP EMI			
FL108	1-234-177-21	FILTER, CHIP EMI			
FL401	1-234-177-21	FILTER, CHIP EMI			
FL402	1-233-893-21	FILTER, CHIP EMI			
FL403	1-234-177-21	FILTER, CHIP EMI			
		< IC >			
IC101	6-807-237-01	IC MX29LV320CBTC70-CBA2-0701CE (GNZ777D:E3,E12,E13,E15,EA)			
IC101	6-807-238-01	IC MX29LV320CBTC70-CBA2-0701GA (GNZ777D:PH,SP,TH)			
IC101	6-807-239-01	IC MX29LV320CBTC70-CBA3-0701CE (GNZ888D:E3,E12,E15,EA)			
IC101	6-807-240-01	IC MX29LV320CBTC70-CBA3-0701GA (GNZ888D:PH,SP,TH)			
IC102	6-707-535-01	IC CXD9849R			
IC103	(Not supplied)	IC BR24L64F-WE2			

When IC103 on the DMB16 board are damaged, exchange the new DMB16 board for the DMB16 board which IC damaged.

Ref. No.	Part No.	Description			Remark
IC104	6-709-370-01	IC A2V64S40CTP-G75			
IC105	6-702-302-01	IC TK11133CSCL-G			
IC106	6-709-213-01	IC NJM2387ADL3(TE2)			
IC107	6-702-302-01	IC TK11133CSCL-G			
IC201	6-704-524-01	IC FAN8036L			
IC301	6-704-222-01	IC AK4358VQ-L			
IC3711	8-759-359-49	IC NJM3414AV(TE2)			
IC3731	8-759-359-49	IC NJM3414AV(TE2) (GNZ888D)			
IC3751	8-759-359-49	IC NJM3414AV(TE2) (GNZ888D)			
IC3771	8-759-359-49	IC NJM3414AV(TE2)			
		< TRANSISTOR >			
Q101	6-550-008-01	TRANSISTOR UM6K1N-TN			
Q102	6-550-653-01	TRANSISTOR QST8TR			
Q103	8-729-027-52	TRANSISTOR DTC124EKA-T146			
Q3801	8-729-230-49	TRANSISTOR 2SC2712-YG			
		< RESISTOR >			
R101	1-216-809-11	METAL CHIP	100	5%	1/10W
R104	1-216-864-11	SHORT CHIP	0		
R105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R108	1-216-857-11	METAL CHIP	1M	5%	1/10W
R109	1-216-864-11	SHORT CHIP	0		
R110	1-216-841-11	METAL CHIP	47K	5%	1/10W
R111	1-216-809-11	METAL CHIP	100	5%	1/10W
R112	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R113	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R114	1-216-845-11	METAL CHIP	100K	5%	1/10W
R115	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R116	1-216-821-11	METAL CHIP	1K	5%	1/10W
R117	1-216-841-11	METAL CHIP	47K	5%	1/10W
R118	1-216-801-11	METAL CHIP	22	5%	1/10W
R120	1-216-801-11	METAL CHIP	22	5%	1/10W
R121	1-216-801-11	METAL CHIP	22	5%	1/10W
R123	1-216-864-11	SHORT CHIP	0		
R124	1-216-841-11	METAL CHIP	47K	5%	1/10W
R126	1-216-864-11	SHORT CHIP	0		
R127	1-216-809-11	METAL CHIP	100	5%	1/10W
R136	1-216-835-11	METAL CHIP	15K	5%	1/10W
R138	1-216-845-11	METAL CHIP	100K	5%	1/10W
R141	1-218-916-11	METAL CHIP	750K	0.5%	1/10W
R142	1-216-845-11	METAL CHIP	100K	5%	1/10W
R143	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ777D)
R146	1-216-805-11	METAL CHIP	47	5%	1/10W
R151	1-216-805-11	METAL CHIP	47	5%	1/10W
R152	1-216-864-11	SHORT CHIP	0		
R153	1-216-805-11	METAL CHIP	47	5%	1/10W
R155	1-216-805-11	METAL CHIP	47	5%	1/10W
R160	1-216-805-11	METAL CHIP	47	5%	1/10W
R161	1-216-809-11	METAL CHIP	100	5%	1/10W
R164	1-216-809-11	METAL CHIP	100	5%	1/10W
R169	1-216-833-11	METAL CHIP	10K	5%	1/10W
R187	1-216-864-11	SHORT CHIP	0		
R189	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R190	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R191	1-216-821-11	METAL CHIP	1K	5%	1/10W
R192	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R193	1-216-821-11	METAL CHIP	1K	5%	1/10W
R195	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R196	1-216-864-11	SHORT CHIP	0		
R197	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R204	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-833-11	METAL CHIP	10K	5%	1/10W
R207	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R208	1-216-839-11	METAL CHIP	33K	5%	1/10W
R209	1-216-839-11	METAL CHIP	33K	5%	1/10W
R210	1-216-841-11	METAL CHIP	47K	5%	1/10W
R212	1-216-833-11	METAL CHIP	10K	5%	1/10W
R213	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R214	1-216-835-11	METAL CHIP	15K	5%	1/10W
R215	1-216-834-11	METAL CHIP	12K	5%	1/10W
R216	1-216-834-11	METAL CHIP	12K	5%	1/10W
R219	1-216-838-11	METAL CHIP	27K	5%	1/10W
R220	1-216-833-11	METAL CHIP	10K	5%	1/10W
R221	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R223	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R225	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R226	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R230	1-218-893-11	METAL CHIP	82K	0.5%	1/10W
R231	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R232	1-218-877-11	METAL CHIP	18K	0.5%	1/10W
R233	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R234	1-216-833-11	METAL CHIP	10K	5%	1/10W
R246	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R247	1-216-821-11	METAL CHIP	1K	5%	1/10W
R314	1-216-809-11	METAL CHIP	100	5%	1/10W
R319	1-216-864-11	SHORT CHIP	0		
R321	1-216-864-11	SHORT CHIP	0		
R1101	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1102	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R1103	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1104	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1109	1-216-864-11	SHORT CHIP	0		
R1110	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R1120	1-216-864-11	SHORT CHIP	0		
R1121	1-216-864-11	SHORT CHIP	0		
R1122	1-216-864-11	SHORT CHIP	0		
R1123	1-216-864-11	SHORT CHIP	0		
R1124	1-216-864-11	SHORT CHIP	0		
R1125	1-216-864-11	SHORT CHIP	0		
R1126	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1129	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1133	1-216-864-11	SHORT CHIP	0		
R1134	1-216-864-11	SHORT CHIP	0		
R1138	1-216-817-11	METAL CHIP	470	5%	1/10W
R1139	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1150	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1151	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1152	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1161	1-216-864-11	SHORT CHIP	0		
R1168	1-216-815-11	METAL CHIP	330	5%	1/10W

DMB16

Ref. No.	Part No.	Description			Remark
R1171	1-216-809-11	METAL CHIP	100	5%	1/10W
R1502	1-216-864-11	SHORT CHIP	0		
R1504	1-400-244-11	BEAD, FERRITE (CHIP) (1608)			
R1524	1-216-809-11	METAL CHIP	100	5%	1/10W
R1526	1-216-809-11	METAL CHIP	100	5%	1/10W
R1530	1-216-805-11	METAL CHIP	47	5%	1/10W
R1531	1-216-805-11	METAL CHIP	47	5%	1/10W
R1540	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1542	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1543	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1544	1-216-864-11	SHORT CHIP	0		
R1546	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1547	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1548	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1549	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1550	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1551	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1552	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1553	1-216-864-11	SHORT CHIP	0		
R1554	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1557	1-216-809-11	METAL CHIP	100	5%	1/10W
R1559	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1561	1-216-864-11	SHORT CHIP	0		
R2504	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3501	1-216-864-11	SHORT CHIP	0 (GNZ777D)		
R3502	1-216-864-11	SHORT CHIP	0		
R3503	1-216-864-11	SHORT CHIP	0		
R3506	1-216-864-11	SHORT CHIP	0		
R3507	1-216-809-11	METAL CHIP	100	5%	1/10W
R3508	1-216-809-11	METAL CHIP	100	5%	1/10W
R3651	1-216-864-11	SHORT CHIP	0		
R3652	1-216-864-11	SHORT CHIP	0		
R3653	1-216-864-11	SHORT CHIP	0		
R3711	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3712	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3713	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3714	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3715	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3716	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3717	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3718	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3719	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3721	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3722	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3723	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3724	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3725	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3726	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3727	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3728	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3729	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3731	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (GNZ888D)
R3732	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (GNZ888D)
R3733	1-216-828-11	METAL CHIP	3.9K	5%	1/10W (GNZ888D)
R3734	1-216-828-11	METAL CHIP	3.9K	5%	1/10W (GNZ888D)
R3735	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ888D)
R3736	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R3737	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R3738	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ888D)
R3739	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R3741	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (GNZ888D)
R3742	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (GNZ888D)
R3743	1-216-828-11	METAL CHIP	3.9K	5%	1/10W (GNZ888D)
R3744	1-216-828-11	METAL CHIP	3.9K	5%	1/10W (GNZ888D)
R3745	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ888D)
R3746	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R3747	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R3748	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ888D)
R3749	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R3751	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (GNZ888D)
R3752	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (GNZ888D)
R3753	1-216-828-11	METAL CHIP	3.9K	5%	1/10W (GNZ888D)
R3754	1-216-828-11	METAL CHIP	3.9K	5%	1/10W (GNZ888D)
R3755	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ888D)
R3756	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R3757	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R3758	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ888D)
R3759	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R3761	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (GNZ888D)
R3762	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (GNZ888D)
R3763	1-216-828-11	METAL CHIP	3.9K	5%	1/10W (GNZ888D)
R3764	1-216-828-11	METAL CHIP	3.9K	5%	1/10W (GNZ888D)
R3765	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ888D)
R3766	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R3767	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R3768	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ888D)

Ref. No.	Part No.	Description			Remark
R3769	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R3771	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3772	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3773	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3774	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3775	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3776	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3777	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3778	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3779	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3781	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3782	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R3783	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3784	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R3785	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3786	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3787	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3788	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3789	1-216-821-11	METAL CHIP	1K	5%	1/10W
R3801	1-216-864-11	SHORT CHIP	0		
R3802	1-216-864-11	SHORT CHIP	0		
R3803	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3804	1-216-836-11	METAL CHIP	18K	5%	1/10W
R3805	1-216-821-11	METAL CHIP	1K	5%	1/10W
R4701	1-216-864-11	SHORT CHIP	0		
R4702	1-216-864-11	SHORT CHIP	0		
R4703	1-216-864-11	SHORT CHIP	0		
R4704	1-216-864-11	SHORT CHIP	0		
R4705	1-216-864-11	SHORT CHIP	0		
R4706	1-216-864-11	SHORT CHIP	0		
R5003	1-216-864-11	SHORT CHIP	0 (GNZ888D)		
R5004	1-216-864-11	SHORT CHIP	0 (GNZ777D)		
R5016	1-216-864-11	SHORT CHIP	0 (E3,E12,E13,E15,EA)		
R5017	1-216-864-11	SHORT CHIP	0 (PH,SP,TH)		
		< NETWORK RESISTOR >			
RB103	1-234-371-21	RES, NETWORK 47X4 (1005)			
RB104	1-234-371-21	RES, NETWORK 47X4 (1005)			
RB105	1-234-370-21	RES, NETWORK 22X4 (1005)			
RB106	1-234-370-21	RES, NETWORK 22X4 (1005)			
RB107	1-234-371-21	RES, NETWORK 47X4 (1005)			
RB108	1-234-372-11	RES, NETWORK 100X4 (1005)			
RB111	1-234-371-21	RES, NETWORK 47X4 (1005)			
RB112	1-234-370-21	RES, NETWORK 22X4 (1005)			
RB113	1-234-370-21	RES, NETWORK 22X4 (1005)			
		< VIBRATOR >			
X101	1-813-539-11	QUARTZ CRYSTAL UNIT (27MHz)			
**********					
	A-1103-756-B	DRIVER BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C715	1-126-933-11	ELECT	100uF	20%	16V
C731	1-126-964-11	ELECT	10uF	20%	50V
C735	1-164-159-21	CERAMIC	0.1uF		50V
C736	1-164-159-21	CERAMIC	0.1uF		50V
C737	1-164-159-21	CERAMIC	0.1uF		50V
C741	1-162-306-11	CERAMIC	0.01uF	20%	16V
C751	1-162-306-11	CERAMIC	0.01uF	20%	16V
C752	1-164-159-21	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN701	1-784-735-11	CONNECTOR, FFC 13P			
CN702	1-784-766-11	CONNECTOR, FFC 5P			
* CN703	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN704	1-785-328-11	PIN, CONNECTOR (LIGHT ANGLE) 2P			
		< DIODE >			
D701	8-719-921-42	DIODE MTZJ-5.1A			
D711	8-719-109-69	DIODE RD3.6ESB2			
		< IC >			
IC701	8-759-598-69	IC BA6956AN			
IC712	8-759-598-69	IC BA6956AN			
		< TRANSISTOR >			
Q731	8-729-029-66	TRANSISTOR DTC114ESA			
		< RESISTOR >			
R701	1-249-413-11	CARBON	470	5%	1/4W
R702	1-247-807-31	CARBON	100	5%	1/4W
R711	1-249-417-11	CARBON	1K	5%	1/4W
R712	1-249-425-11	CARBON	4.7K	5%	1/4W
R713	1-249-433-11	CARBON	22K	5%	1/4W
R721	1-249-425-11	CARBON	4.7K	5%	1/4W
R722	1-249-425-11	CARBON	4.7K	5%	1/4W
R723	1-249-425-11	CARBON	4.7K	5%	1/4W
R731	1-247-807-31	CARBON	100	5%	1/4W
R732	1-249-429-11	CARBON	10K	5%	1/4W
R733	1-249-417-11	CARBON	1K	5%	1/4W
R734	1-249-430-11	CARBON	12K	5%	1/4W
R736	1-249-412-11	CARBON	390	5%	1/4W
R751	1-249-425-11	CARBON	4.7K	5%	1/4W
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		HEADPHONE BOARD			
		**********			
		< CAPACITOR >			
C1425	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1443	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1493	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< DIODE >			
D1403	6-501-579-01	DIODE MC2837			
		< JACK >			
J1401	1-794-702-11	JACK, HEADPHONE (PHONES)			
		< JUMPER RESISTOR >			
JR1433	1-216-864-11	SHORT CHIP	0		
JR1483	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q1400	6-550-889-01	TRANSISTOR 2SC5938-T112-1B			
Q1401	6-550-889-01	TRANSISTOR 2SC5938-T112-1B			
Q1450	6-550-889-01	TRANSISTOR 2SC5938-T112-1B			
Q1451	6-550-889-01	TRANSISTOR 2SC5938-T112-1B			
		< RESISTOR >			
R1425	1-216-864-11	SHORT CHIP	0		
R1426	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1428	1-216-797-11	METAL CHIP	10	5%	1/10W
R1429	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1430	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1432	1-216-797-11	METAL CHIP	10	5%	1/10W
R1486	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1488	1-216-797-11	METAL CHIP	10	5%	1/10W
R1489	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1490	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1492	1-216-797-11	METAL CHIP	10	5%	1/10W
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		KEY LEFT BOARD			
		**********			
		< CAPACITOR >			
C1331	1-124-589-11	ELECT	47uF	20%	16V
		< DIODE >			
D1310	6-501-691-01	LED 1L434FV22D0TDF01 (I/⏻ STANDBY)			
D1311	8-719-404-50	DIODE MA111-TX			
		< IC >			
IC1301	6-600-349-31	IC NJL24H400A (IR)			
		< TRANSISTOR >			
Q1322	8-729-027-43	TRANSISTOR DTC114EKA-T146			
		< RESISTOR >			
R1378	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1379	1-216-864-11	SHORT CHIP	0		
R1380	1-216-805-11	METAL CHIP	47	5%	1/10W
R1381	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1382	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1383	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1384	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1385	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< SWITCH >			
S1319	1-762-875-21	SWITCH, KEYBOARD (I/⏻ STANDBY)			
S1320	1-762-875-21	SWITCH, KEYBOARD (DVD)			
S1321	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)			
S1322	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)			
S1323	1-762-875-21	SWITCH, KEYBOARD (TV/SAT)			
S1324	1-762-875-21	SWITCH, KEYBOARD (VIDEO)			
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Ref. No.	Part No.	Description			Remark
		KEY RIGHT BOARD			
		**********			
		< CONNECTOR >			
CN1303	1-785-315-11	PIN, CONNECTOR (STRAIGHT) 3P			
		< RESISTOR >			
R1372	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1373	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1374	1-216-819-11	METAL CHIP	680	5%	1/10W
R1375	1-216-817-11	METAL CHIP	470	5%	1/10W
R1376	1-216-815-11	METAL CHIP	330	5%	1/10W
R1377	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
		< SWITCH >			
S1312	1-762-875-21	SWITCH, KEYBOARD (DISC 1)			
S1313	1-762-875-21	SWITCH, KEYBOARD (DISC 2)			
S1314	1-762-875-21	SWITCH, KEYBOARD (DISC 3)			
S1315	1-762-875-21	SWITCH, KEYBOARD (EX-CHANGE/DISC SKIP)			
S1316	1-762-875-21	SWITCH, KEYBOARD (⏏ OPEN/CLOSE)			
S1317	1-762-875-21	SWITCH, KEYBOARD (▮▮)			
S1318	1-762-875-21	SWITCH, KEYBOARD (■)			
**********					
	A-1225-300-A	MAIN BOARD, COMPLETE (GNZ777D:E3,E15)			
	A-1225-314-A	MAIN BOARD, COMPLETE (GNZ888D:E3,E15)			
	A-1258-318-A	MAIN BOARD, COMPLETE (GNZ777D:EA)			
	A-1258-321-A	MAIN BOARD, COMPLETE (GNZ777D:E12)			
	A-1258-324-A	MAIN BOARD, COMPLETE (GNZ777D:E13)			
	A-1258-327-A	MAIN BOARD, COMPLETE (GNZ777D:PH,SP,TH)			
	A-1258-330-A	MAIN BOARD, COMPLETE (GNZ888D:EA)			
	A-1258-333-A	MAIN BOARD, COMPLETE (GNZ888D:E12)			
	A-1258-339-A	MAIN BOARD, COMPLETE (GNZ888D:PH,SP,TH)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
C101	1-126-964-11	ELECT	10uF	20%	50V
C102	1-126-964-11	ELECT	10uF	20%	50V
C103	1-126-964-11	ELECT	10uF	20%	50V
C104	1-126-964-11	ELECT	10uF	20%	50V
C105	1-126-964-11	ELECT	10uF	20%	50V
C106	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C107	1-136-497-81	FILM	0.1uF	5%	50V
C108	1-104-700-11	CERAMIC CHIP	0.027uF	10%	16V
C109	1-104-700-11	CERAMIC CHIP	0.027uF	10%	16V
C110	1-126-964-11	ELECT	10uF	20%	50V
C111	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C112	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C113	1-126-964-11	ELECT	10uF	20%	50V
C114	1-137-193-11	FILM	0.39uF	5%	50V
C115	1-137-193-11	FILM	0.39uF	5%	50V
C116	1-126-963-11	ELECT	4.7uF	20%	50V
C119	1-126-965-11	ELECT	22uF	20%	50V
C120	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C121	1-126-960-11	ELECT	1uF	20%	50V
C122	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C123	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C124	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C125	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C126	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C127	1-126-964-11	ELECT	10uF	20%	50V
C128	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C130	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V
C132	1-126-933-11	ELECT	100uF	20%	16V
C133	1-126-959-11	ELECT	0.47uF	20%	50V
C134	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C135	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C136	1-126-933-11	ELECT	100uF	20%	16V
C137	1-126-935-11	ELECT	470uF	20%	16V
C138	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C139	1-137-150-11	FILM	0.01uF	5%	100V
C140	1-126-947-11	ELECT	47uF	20%	35V
C141	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C142	1-130-481-00	MYLAR	0.0068uF	5%	50V
C144	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C145	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C147	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C148	1-126-961-11	ELECT	2.2uF	20%	50V
C150	1-126-964-11	ELECT	10uF	20%	50V
C151	1-126-964-11	ELECT	10uF	20%	50V
C152	1-126-964-11	ELECT	10uF	20%	50V
C153	1-126-964-11	ELECT	10uF	20%	50V
C154	1-126-964-11	ELECT	10uF	20%	50V
C156	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C157	1-136-497-81	FILM	0.1uF	5%	50V
C158	1-104-700-11	CERAMIC CHIP	0.027uF	10%	16V
C159	1-104-700-11	CERAMIC CHIP	0.027uF	10%	16V
C160	1-126-964-11	ELECT	10uF	20%	50V
C161	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C162	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C163	1-126-964-11	ELECT	10uF	20%	50V
C164	1-137-193-11	FILM	0.39uF	5%	50V
C165	1-137-193-11	FILM	0.39uF	5%	50V
C166	1-126-963-11	ELECT	4.7uF	20%	50V
C169	1-126-965-11	ELECT	22uF	20%	50V
C170	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C171	1-126-960-11	ELECT	1uF	20%	50V
C172	1-126-964-11	ELECT	10uF	20%	50V
C173	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C174	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C175	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C176	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C177	1-137-194-81	FILM	0.47uF	5%	50V
C178	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C179	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C180	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V
C184	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C185	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C186	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C187	1-126-933-11	ELECT	100uF	20%	16V
C188	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C189	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C190	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C191	1-137-190-11	FILM	0.22uF	5%	50V

Ref. No.	Part No.	Description			Remark
C192	1-126-960-11	ELECT	1uF	20%	50V
C193	1-137-190-11	FILM	0.22uF	5%	50V
C194	1-126-964-11	ELECT	10uF	20%	50V
C195	1-126-960-11	ELECT	1uF	20%	50V
C197	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C198	1-126-961-11	ELECT	2.2uF	20%	50V
C199	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C200	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C211	1-100-717-11	CERAMIC CHIP	1uF		16V
C213	1-136-497-81	FILM	0.1uF	5%	50V
C214	1-136-497-81	FILM	0.1uF	5%	50V
C215	1-126-964-11	ELECT	10uF	20%	50V
C216	1-136-497-81	FILM	0.1uF	5%	50V
C230	1-126-961-11	ELECT	2.2uF	20%	50V
C234	1-126-926-11	ELECT	1000uF	20%	10V
C235	1-216-864-11	SHORT CHIP	0		
C236	1-126-964-11	ELECT	10uF	20%	50V (GNZ888D)
C237	1-126-964-11	ELECT	10uF	20%	50V (GNZ888D)
C238	1-126-964-11	ELECT	10uF	20%	50V
C239	1-126-964-11	ELECT	10uF	20%	50V
C261	1-126-964-11	ELECT	10uF	20%	50V (GNZ888D)
C262	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (GNZ888D)
C263	1-126-964-11	ELECT	10uF	20%	50V (GNZ888D)
C264	1-126-964-11	ELECT	10uF	20%	50V (GNZ888D)
C267	1-126-964-11	ELECT	10uF	20%	50V
C270	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GNZ888D)
C272	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (GNZ888D)
C273	1-124-261-00	ELECT	10uF	20%	50V (GNZ888D)
C274	1-126-964-11	ELECT	10uF	20%	50V (GNZ888D)
C286	1-126-964-11	ELECT	10uF	20%	50V (GNZ888D)
C287	1-126-964-11	ELECT	10uF	20%	50V (GNZ888D)
C288	1-126-964-11	ELECT	10uF	20%	50V
C289	1-126-964-11	ELECT	10uF	20%	50V
C301	1-126-965-11	ELECT	22uF	20%	50V
C302	1-126-965-11	ELECT	22uF	20%	50V
C303	1-126-961-11	ELECT	2.2uF	20%	50V
C304	1-126-961-11	ELECT	2.2uF	20%	50V
C305	1-124-589-11	ELECT	47uF	20%	16V (GNZ888D)
C305	1-124-257-00	ELECT	2.2uF	20%	50V (GNZ777D)
C306	1-124-589-11	ELECT	47uF	20%	16V (GNZ888D)
C306	1-124-257-00	ELECT	2.2uF	20%	50V (GNZ777D)
C307	1-126-961-11	ELECT	2.2uF	20%	50V
C308	1-126-961-11	ELECT	2.2uF	20%	50V
C310	1-126-935-11	ELECT	470uF	20%	16V

MAIN

Ref. No.	Part No.	Description			Remark
C350	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (GNZ777D)
C351	1-126-964-11	ELECT	10uF	20%	50V (GNZ777D)
C352	1-126-964-11	ELECT	10uF	20%	50V (GNZ777D)
C360	1-126-964-11	ELECT	10uF	20%	50V (GNZ777D)
C361	1-126-947-11	ELECT	47uF	20%	35V (GNZ777D)
C362	1-126-933-11	ELECT	100uF	20%	16V (GNZ777D)
C366	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V (GNZ777D)
C410	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C411	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C414	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C416	1-126-917-11	ELECT	3300uF	20%	6.3V
C462	1-104-658-11	ELECT	100uF	20%	10V
C464	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C475	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C486	1-126-935-11	ELECT	470uF	20%	16V
C496	1-126-964-11	ELECT	10uF	20%	50V
C498	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C499	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C501	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GNZ777D)
C502	1-104-658-11	ELECT	100uF	20%	10V (GNZ777D)
C504	1-126-767-11	ELECT	1000uF	20%	16V
C520	1-126-964-11	ELECT	10uF	20%	50V
C521	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C529	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C531	1-113-619-11	CERAMIC CHIP	0.47uF		10V
C532	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ777D)
C539	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C550	1-126-937-11	ELECT	4700uF	20%	16V
C551	1-126-960-11	ELECT	1uF	20%	50V
C552	1-126-935-11	ELECT	470uF	20%	16V
C553	1-126-960-11	ELECT	1uF	20%	50V
C554	1-126-935-11	ELECT	470uF	20%	16V
C555	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C556	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C566	1-126-960-11	ELECT	1uF	20%	50V
C567	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C568	1-126-767-11	ELECT	1000uF	20%	16V
C570	1-126-964-11	ELECT	10uF	20%	50V
C571	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C580	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C581	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C582	1-126-937-11	ELECT	4700uF	20%	16V
C583	1-126-963-11	ELECT	4.7uF	20%	50V
C585	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C2000	1-104-658-11	ELECT	100uF	20%	10V
C2001	1-126-947-11	ELECT	47uF	20%	35V
C2002	1-126-947-11	ELECT	47uF	20%	35V
C2004	1-126-961-11	ELECT	2.2uF	20%	50V
C2005	1-126-947-11	ELECT	47uF	20%	35V
C2006	1-126-960-11	ELECT	1uF	20%	50V
C2007	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C2008	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C2009	1-126-947-11	ELECT	47uF	20%	35V
C2010	1-126-961-11	ELECT	2.2uF	20%	50V
C2011	1-126-947-11	ELECT	47uF	20%	35V
C2013	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C2015	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C2016	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CN101	1-568-830-11	CONNECTOR, FFC 11P	
CN105	1-784-776-11	CONNECTOR, FFC 15P (GNZ777D)	
CN105	1-784-778-11	CONNECTOR, FFC 17P (GNZ888D)	
CN121	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
* CN131	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P	
CN201	1-784-786-11	CONNECTOR, FFC 25P	
CN205	1-785-321-11	PIN, CONNECTOR (STRAIGHT) 9P	
CN301	1-779-281-11	CONNECTOR, FFC (LIF(NON-ZIF)) 13P	
CN381	1-766-715-21	CONNECTOR, BOARD TO BOARD 10P (GNZ777D)	
* CN381	1-766-718-21	CONNECTOR, BOARD TO BOARD 17P (GNZ888D)	
CN405	1-784-774-11	CONNECTOR, FFC 13P	
CN406	1-568-828-11	CONNECTOR, FFC 9P	
CN521	1-779-287-11	CONNECTOR, FFC (LIF(NON-ZIF)) 19P	
CN580	1-564-506-11	PLUG, CONNECTOR 3P	
* CN590	1-564-510-11	PLUG, CONNECTOR 7P	
		< DIODE >	
D101	8-719-404-50	DIODE MA111-TX	
D104	8-719-404-50	DIODE MA111-TX	
D134	6-500-522-21	DIODE 10EDB40-TB3	
D135	6-500-522-21	DIODE 10EDB40-TB3	
D136	6-501-168-01	DIODE UDZW-TE17-5.6B	
D213	8-719-404-50	DIODE MA111-TX	
D214	8-719-404-50	DIODE MA111-TX	
D215	8-719-404-50	DIODE MA111-TX	
D216	8-719-404-50	DIODE MA111-TX	
D230	8-719-404-50	DIODE MA111-TX	
D231	8-719-404-50	DIODE MA111-TX	
D232	8-719-404-50	DIODE MA111-TX	
D301	8-719-404-50	DIODE MA111-TX	
D381	6-501-579-01	DIODE MC2837	
D393	6-500-334-01	DIODE MC2836-T112-1	
D395	6-500-334-01	DIODE MC2836-T112-1	
D397	8-719-404-50	DIODE MA111-TX	
D398	8-719-404-50	DIODE MA111-TX	
D486	8-719-404-50	DIODE MA111-TX	
D505	8-719-404-50	DIODE MA111-TX (GNZ777D)	
D506	8-719-404-50	DIODE MA111-TX	
D580	8-719-404-50	DIODE MA111-TX	
D581	6-501-169-01	DIODE UDZW-TE17-6.2B	
D582	8-719-404-50	DIODE MA111-TX	
D594	6-500-522-21	DIODE 10EDB40-TB3	
D2000	8-719-404-50	DIODE MA111-TX	
D2001	8-719-404-50	DIODE MA111-TX	
D2002	8-719-404-50	DIODE MA111-TX	
D2003	8-719-404-50	DIODE MA111-TX	
D2006	8-719-404-50	DIODE MA111-TX	

Ref. No.	Part No.	Description			Remark
D2007	8-719-404-50	DIODE MA111-TX			
D2008	8-719-404-50	DIODE MA111-TX			
		< FERRITE BEAD >			
FB101	1-216-817-11	METAL CHIP	470	5%	1/10W
FB102	1-216-864-11	SHORT CHIP	0		
FB103	1-216-817-11	METAL CHIP	470	5%	1/10W
FB104	1-216-864-11	SHORT CHIP	0		
FB151	1-216-817-11	METAL CHIP	470	5%	1/10W
FB152	1-216-864-11	SHORT CHIP	0		
FB153	1-216-817-11	METAL CHIP	470	5%	1/10W
FB301	1-216-864-11	SHORT CHIP	0		
FB305	1-216-864-11	SHORT CHIP	0		
FB307	1-216-864-11	SHORT CHIP	0		
FB308	1-216-864-11	SHORT CHIP	0		
FB309	1-216-864-11	SHORT CHIP	0		
FB310	1-216-864-11	SHORT CHIP	0		
FB312	1-216-864-11	SHORT CHIP	0		
FB505	1-216-864-11	SHORT CHIP	0		
FB513	1-414-235-22	INDUCTOR, FERRITE BEAD			
FB514	1-414-235-22	INDUCTOR, FERRITE BEAD			
FB515	1-414-235-22	INDUCTOR, FERRITE BEAD (GNZ777D)			
FB516	1-216-864-11	SHORT CHIP	0 (GNZ777D)		
FB555	1-216-864-11	SHORT CHIP	0		
		< IC >			
IC101	6-705-667-01	IC M61537FP-RF0G			
IC205	8-759-677-02	IC BU4053BCF-E2 (GNZ888D)			
IC301	6-711-007-01	IC M61545AFP (GNZ777D)			
IC304	8-759-359-49	IC NJM3414AV(TE2) (GNZ777D)			
IC401	6-807-368-01	IC M30622MEP-B16FPUO			
IC402	6-701-680-01	IC PST3629NR			
IC508	6-600-465-11	IC TOTX147 (DVD DIGITAL OUT) (GNZ777D)			
IC551	6-703-550-01	IC TA7809LS			
IC552	6-703-550-01	IC TA7809LS			
IC562	6-703-546-01	IC TA7804LS			
IC2000	8-759-359-49	IC NJM3414AV(TE2)			
IC2001	8-759-338-95	IC NJM2903V(TE2)			
IC2002	8-759-338-95	IC NJM2903V(TE2)			
		< JACK >			
J501	1-815-045-11	JACK, PIN 2P (TV/SAT AUDIO IN)			
J503	1-774-785-11	JACK, PIN 1P (SUB WOOFER OUT)			
J506	1-820-048-11	CONNECTOR (LIGHTING) (D-LIGHT SYNC OUT)			
		< JUMPER RESISTOR >			
JR100	1-216-296-11	SHORT CHIP	0		
JR101	1-216-864-11	SHORT CHIP	0		
JR102	1-216-864-11	SHORT CHIP	0		
JR103	1-216-864-11	SHORT CHIP	0		
JR104	1-216-864-11	SHORT CHIP	0 (GNZ888D)		
JR105	1-216-864-11	SHORT CHIP	0		
JR106	1-216-864-11	SHORT CHIP	0		
JR108	1-216-864-11	SHORT CHIP	0		
JR109	1-216-864-11	SHORT CHIP	0		
JR110	1-216-864-11	SHORT CHIP	0		
JR111	1-216-864-11	SHORT CHIP	0		
JR112	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description		Remark
JR113	1-216-864-11	SHORT CHIP	0	
JR114	1-216-864-11	SHORT CHIP	0	
JR115	1-216-864-11	SHORT CHIP	0	
JR116	1-216-864-11	SHORT CHIP	0	
JR117	1-216-864-11	SHORT CHIP	0	
JR118	1-216-864-11	SHORT CHIP	0	
JR119	1-216-296-11	SHORT CHIP	0	
JR120	1-216-296-11	SHORT CHIP	0	
JR121	1-216-296-11	SHORT CHIP	0	
JR122	1-216-296-11	SHORT CHIP	0	
JR123	1-216-864-11	SHORT CHIP	0	
JR124	1-216-864-11	SHORT CHIP	0	
JR128	1-216-296-11	SHORT CHIP	0	
JR151	1-216-296-11	SHORT CHIP	0	
JR200	1-216-864-11	SHORT CHIP	0	
JR260	1-216-864-11	SHORT CHIP	0 (GNZ888D)	
JR261	1-216-864-11	SHORT CHIP	0 (GNZ777D)	
JR262	1-216-864-11	SHORT CHIP	0 (GNZ888D)	
JR263	1-216-864-11	SHORT CHIP	0 (GNZ777D)	
JR266	1-216-864-11	SHORT CHIP	0	
JR322	1-216-864-11	SHORT CHIP	0 (GNZ888D)	
JR333	1-216-864-11	SHORT CHIP	0 (GNZ777D)	
JR402	1-216-864-11	SHORT CHIP	0	
JR419	1-216-864-11	SHORT CHIP	0	
JR479	1-216-864-11	SHORT CHIP	0 (GNZ777D)	
JR480	1-216-864-11	SHORT CHIP	0 (GNZ777D)	
JR522	1-216-864-11	SHORT CHIP	0 (GNZ777D)	
		< COIL >		
L103	1-410-780-11	INDUCTOR	27mH	
L104	1-410-780-11	INDUCTOR	27mH	
L501	1-414-183-41	INDUCTOR	10uH	
L505	1-412-064-11	INDUCTOR	100uH (GNZ777D)	
		< TRANSISTOR >		
Q101	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R	
Q103	6-550-889-01	TRANSISTOR	2SC5938-T112-1B	
Q104	6-551-611-01	FET	2SK2158A-T	
Q106	6-550-889-01	TRANSISTOR	2SC5938-T112-1B	
Q107	8-729-216-22	TRANSISTOR	2SA1162-G	
Q108	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q109	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q110	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q111	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q112	8-729-141-75	TRANSISTOR	2SD596DV345	
Q113	6-550-185-01	TRANSISTOR	RT1P137P-TP-1	
Q114	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q118	8-729-920-79	TRANSISTOR	2SB1132-T100-QR	
Q119	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q120	8-729-920-79	TRANSISTOR	2SB1132-T100-QR	
Q121	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q122	8-729-920-79	TRANSISTOR	2SB1132-T100-QR	
Q123	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q125	6-550-889-01	TRANSISTOR	2SC5938-T112-1B	
Q131	8-729-056-46	TRANSISTOR	2SC5053T100Q	
Q132	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q133	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q151	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R	

MAIN

Ref. No.	Part No.	Description	Remark
Q153	6-550-889-01	TRANSISTOR 2SC5938-T112-1B	
Q154	6-551-611-01	FET 2SK2158A-T	
Q155	6-551-611-01	FET 2SK2158A-T	
Q166	6-550-889-01	TRANSISTOR 2SC5938-T112-1B	
Q175	6-550-889-01	TRANSISTOR 2SC5938-T112-1B	
Q210	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q211	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q213	8-729-027-52	TRANSISTOR DTC124EKA-T146	
Q235	6-550-889-01	TRANSISTOR 2SC5938-T112-1B (GNZ888D)	
Q236	6-550-889-01	TRANSISTOR 2SC5938-T112-1B (GNZ888D)	
Q237	6-550-889-01	TRANSISTOR 2SC5938-T112-1B	
Q238	6-550-889-01	TRANSISTOR 2SC5938-T112-1B	
Q260	8-729-027-43	TRANSISTOR DTC114EKA-T146 (GNZ888D)	
Q261	8-729-027-43	TRANSISTOR DTC114EKA-T146 (GNZ888D)	
Q263	6-550-889-01	TRANSISTOR 2SC5938-T112-1B	
Q264	6-550-889-01	TRANSISTOR 2SC5938-T112-1B	
Q285	6-550-889-01	TRANSISTOR 2SC5938-T112-1B (GNZ888D)	
Q286	6-550-889-01	TRANSISTOR 2SC5938-T112-1B (GNZ888D)	
Q287	6-550-889-01	TRANSISTOR 2SC5938-T112-1B	
Q288	6-550-889-01	TRANSISTOR 2SC5938-T112-1B	
Q301	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q303	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q305	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q306	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q307	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q311	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q356	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q486	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q580	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q582	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q584	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q585	8-729-026-68	TRANSISTOR 2SD2525(TP)	

< RESISTOR >

Ref. No.	Part No.	Description			Remark
R101	1-216-812-11	METAL CHIP	180	5%	1/10W
R102	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R103	1-216-833-11	METAL CHIP	10K	5%	1/10W
R104	1-216-841-11	METAL CHIP	47K	5%	1/10W
R105	1-216-841-11	METAL CHIP	47K	5%	1/10W
R106	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R107	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R108	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R110	1-216-851-11	METAL CHIP	330K	5%	1/10W
R111	1-216-821-11	METAL CHIP	1K	5%	1/10W
R112	1-216-833-11	METAL CHIP	10K	5%	1/10W
R113	1-216-833-11	METAL CHIP	10K	5%	1/10W
R114	1-216-864-11	SHORT CHIP	0		
R115	1-216-833-11	METAL CHIP	10K	5%	1/10W
R116	1-216-833-11	METAL CHIP	10K	5%	1/10W
R117	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R118	1-216-835-11	METAL CHIP	15K	5%	1/10W
R119	1-216-817-11	METAL CHIP	470	5%	1/10W
R120	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R121	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R122	1-216-864-11	SHORT CHIP	0		
R124	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R125	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R126	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R127	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R128	1-216-837-11	METAL CHIP	22K	5%	1/10W
R129	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R130	1-216-841-11	METAL CHIP	47K	5%	1/10W
R131	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R132	1-216-849-11	METAL CHIP	220K	5%	1/10W
R133	1-216-857-11	METAL CHIP	1M	5%	1/10W
R135	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R136	1-216-833-11	METAL CHIP	10K	5%	1/10W
R138	1-216-841-11	METAL CHIP	47K	5%	1/10W
R139	1-216-864-11	SHORT CHIP	0		
R140	1-216-833-11	METAL CHIP	10K	5%	1/10W
R141	1-216-833-11	METAL CHIP	10K	5%	1/10W
R142	1-216-833-11	METAL CHIP	10K	5%	1/10W
R143	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R144	1-216-805-11	METAL CHIP	47	5%	1/10W
R145	1-216-833-11	METAL CHIP	10K	5%	1/10W
R146	1-216-797-11	METAL CHIP	10	5%	1/10W
R147	1-216-803-11	METAL CHIP	33	5%	1/10W
R148	1-216-841-11	METAL CHIP	47K	5%	1/10W
R149	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R150	1-216-841-11	METAL CHIP	47K	5%	1/10W
R151	1-216-812-11	METAL CHIP	180	5%	1/10W
R152	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R153	1-216-833-11	METAL CHIP	10K	5%	1/10W
R154	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R155	1-216-841-11	METAL CHIP	47K	5%	1/10W
R156	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R158	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R159	1-216-817-11	METAL CHIP	470	5%	1/10W
R160	1-216-851-11	METAL CHIP	330K	5%	1/10W
R161	1-216-821-11	METAL CHIP	1K	5%	1/10W
R162	1-216-833-11	METAL CHIP	10K	5%	1/10W
R163	1-216-833-11	METAL CHIP	10K	5%	1/10W
R164	1-216-864-11	SHORT CHIP	0		
R165	1-216-817-11	METAL CHIP	470	5%	1/10W
R166	1-216-833-11	METAL CHIP	10K	5%	1/10W
R167	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R168	1-216-835-11	METAL CHIP	15K	5%	1/10W
R169	1-216-817-11	METAL CHIP	470	5%	1/10W
R172	1-216-864-11	SHORT CHIP	0		
R173	1-216-864-11	SHORT CHIP	0		
R174	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R175	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R176	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R177	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R178	1-216-833-11	METAL CHIP	10K	5%	1/10W
R179	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R180	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R181	1-216-833-11	METAL CHIP	10K	5%	1/10W
R182	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R183	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R184	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R186	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R188	1-216-841-11	METAL CHIP	47K	5%	1/10W
R189	1-216-864-11	SHORT CHIP	0		
R190	1-216-833-11	METAL CHIP	10K	5%	1/10W
R191	1-216-817-11	METAL CHIP	470	5%	1/10W

Ref. No.	Part No.	Description			Remark
R192	1-216-817-11	METAL CHIP	470	5%	1/10W
R193	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R194	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R195	1-216-857-11	METAL CHIP	1M	5%	1/10W
R196	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R197	1-216-833-11	METAL CHIP	10K	5%	1/10W
R198	1-216-817-11	METAL CHIP	470	5%	1/10W
R199	1-216-817-11	METAL CHIP	470	5%	1/10W
R200	1-216-841-11	METAL CHIP	47K	5%	1/10W
R205	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R206	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R210	1-216-845-11	METAL CHIP	100K	5%	1/10W
R211	1-216-849-11	METAL CHIP	220K	5%	1/10W
R212	1-216-841-11	METAL CHIP	47K	5%	1/10W
R214	1-216-864-11	SHORT CHIP	0		
R215	1-216-821-11	METAL CHIP	1K	5%	1/10W
R216	1-216-813-11	METAL CHIP	220	5%	1/10W
R217	1-216-864-11	SHORT CHIP	0		
R218	1-216-864-11	SHORT CHIP	0		
R225	1-216-839-11	METAL CHIP	33K	5%	1/10W
R227	1-216-864-11	SHORT CHIP	0		
R230	1-216-809-11	METAL CHIP	100	5%	1/10W
R231	1-216-841-11	METAL CHIP	47K	5%	1/10W
R236	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R237	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ888D)
R238	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R240	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R241	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ888D)
R242	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R244	1-216-821-11	METAL CHIP	1K	5%	1/10W
R245	1-216-841-11	METAL CHIP	47K	5%	1/10W
R246	1-216-821-11	METAL CHIP	1K	5%	1/10W
R248	1-216-821-11	METAL CHIP	1K	5%	1/10W
R249	1-216-841-11	METAL CHIP	47K	5%	1/10W
R250	1-216-821-11	METAL CHIP	1K	5%	1/10W
R260	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ888D)
R261	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ888D)
R262	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ888D)
R263	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ888D)
R265	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ888D)
R267	1-216-864-11	SHORT CHIP	0		
R268	1-216-841-11	METAL CHIP	47K	5%	1/10W
R269	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ888D)
R272	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ888D)
R273	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ888D)
R282	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R286	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R287	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ888D)
R288	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R290	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R291	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ888D)
R292	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R294	1-216-821-11	METAL CHIP	1K	5%	1/10W
R295	1-216-841-11	METAL CHIP	47K	5%	1/10W
R296	1-216-821-11	METAL CHIP	1K	5%	1/10W
R298	1-216-821-11	METAL CHIP	1K	5%	1/10W
R299	1-216-841-11	METAL CHIP	47K	5%	1/10W
R300	1-216-821-11	METAL CHIP	1K	5%	1/10W
R301	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R302	1-216-843-11	METAL CHIP	68K	5%	1/10W
R303	1-216-853-11	METAL CHIP	470K	5%	1/10W
R304	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R305	1-216-843-11	METAL CHIP	68K	5%	1/10W
R307	1-216-833-11	METAL CHIP	10K	5%	1/10W
R308	1-216-853-11	METAL CHIP	470K	5%	1/10W
R309	1-216-833-11	METAL CHIP	10K	5%	1/10W
R310	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R311	1-216-843-11	METAL CHIP	68K	5%	1/10W
R312	1-216-853-11	METAL CHIP	470K	5%	1/10W
R316	1-216-821-11	METAL CHIP	1K	5%	1/10W
R317	1-216-833-11	METAL CHIP	10K	5%	1/10W
R319	1-216-841-11	METAL CHIP	47K	5%	1/10W
R322	1-216-833-11	METAL CHIP	10K	5%	1/10W
R323	1-216-833-11	METAL CHIP	10K	5%	1/10W
R329	1-216-833-11	METAL CHIP	10K	5%	1/10W
R330	1-216-833-11	METAL CHIP	10K	5%	1/10W
R334	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ777D)
R335	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ777D)
R338	1-216-833-11	METAL CHIP	10K	5%	1/10W
R339	1-216-833-11	METAL CHIP	10K	5%	1/10W
R341	1-216-833-11	METAL CHIP	10K	5%	1/10W
R352	1-216-824-11	METAL CHIP	1.8K	5%	1/10W (GNZ777D)
R353	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ777D)
R354	1-216-833-11	METAL CHIP	10K	5%	1/10W
R355	1-216-833-11	METAL CHIP	10K	5%	1/10W
R356	1-216-833-11	METAL CHIP	10K	5%	1/10W
R358	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ777D)
R359	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ777D)
R360	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ777D)
R361	1-216-833-11	METAL CHIP	10K	5%	1/10W
R362	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ777D)
R365	1-216-833-11	METAL CHIP	10K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R366	1-216-833-11	METAL CHIP	10K	5%	1/10W
					(GNZ777D)
R373	1-216-833-11	METAL CHIP	10K	5%	1/10W
R374	1-216-833-11	METAL CHIP	10K	5%	1/10W
R375	1-216-833-11	METAL CHIP	10K	5%	1/10W
R385	1-216-833-11	METAL CHIP	10K	5%	1/10W
R392	1-216-811-11	METAL CHIP	150	5%	1/10W
					(GNZ777D)
R392	1-216-819-11	METAL CHIP	680	5%	1/10W
					(GNZ888D)
R393	1-216-811-11	METAL CHIP	150	5%	1/10W
					(E13)
R393	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
					(E3,E12,E15,EA)
R394	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R395	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R397	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R401	1-216-809-11	METAL CHIP	100	5%	1/10W
R402	1-216-809-11	METAL CHIP	100	5%	1/10W
R403	1-216-809-11	METAL CHIP	100	5%	1/10W
R404	1-216-809-11	METAL CHIP	100	5%	1/10W
R405	1-216-809-11	METAL CHIP	100	5%	1/10W
R406	1-216-809-11	METAL CHIP	100	5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R411	1-216-851-11	METAL CHIP	330K	5%	1/10W
R412	1-216-845-11	METAL CHIP	100K	5%	1/10W
R413	1-216-864-11	SHORT CHIP	0		
R417	1-216-833-11	METAL CHIP	10K	5%	1/10W
R419	1-216-809-11	METAL CHIP	100	5%	1/10W
R420	1-216-821-11	METAL CHIP	1K	5%	1/10W
R421	1-216-809-11	METAL CHIP	100	5%	1/10W
R422	1-216-809-11	METAL CHIP	100	5%	1/10W
R423	1-216-809-11	METAL CHIP	100	5%	1/10W
R424	1-216-809-11	METAL CHIP	100	5%	1/10W
R425	1-216-809-11	METAL CHIP	100	5%	1/10W
R426	1-216-809-11	METAL CHIP	100	5%	1/10W
R427	1-216-809-11	METAL CHIP	100	5%	1/10W
R428	1-216-809-11	METAL CHIP	100	5%	1/10W
R429	1-216-809-11	METAL CHIP	100	5%	1/10W
R430	1-216-809-11	METAL CHIP	100	5%	1/10W
R431	1-216-809-11	METAL CHIP	100	5%	1/10W
R432	1-216-809-11	METAL CHIP	100	5%	1/10W
R433	1-216-809-11	METAL CHIP	100	5%	1/10W
R435	1-216-809-11	METAL CHIP	100	5%	1/10W
R436	1-216-809-11	METAL CHIP	100	5%	1/10W
R437	1-216-809-11	METAL CHIP	100	5%	1/10W
R438	1-216-809-11	METAL CHIP	100	5%	1/10W
R439	1-216-809-11	METAL CHIP	100	5%	1/10W
R441	1-216-809-11	METAL CHIP	100	5%	1/10W
R442	1-216-809-11	METAL CHIP	100	5%	1/10W
R443	1-216-809-11	METAL CHIP	100	5%	1/10W
R444	1-216-809-11	METAL CHIP	100	5%	1/10W
R445	1-216-809-11	METAL CHIP	100	5%	1/10W
R446	1-216-809-11	METAL CHIP	100	5%	1/10W
R447	1-216-809-11	METAL CHIP	100	5%	1/10W
R448	1-216-809-11	METAL CHIP	100	5%	1/10W
R449	1-216-809-11	METAL CHIP	100	5%	1/10W
R450	1-216-809-11	METAL CHIP	100	5%	1/10W
R451	1-216-809-11	METAL CHIP	100	5%	1/10W
R452	1-216-809-11	METAL CHIP	100	5%	1/10W
R453	1-216-809-11	METAL CHIP	100	5%	1/10W
R454	1-216-809-11	METAL CHIP	100	5%	1/10W
R455	1-216-809-11	METAL CHIP	100	5%	1/10W
R456	1-216-809-11	METAL CHIP	100	5%	1/10W
R457	1-216-809-11	METAL CHIP	100	5%	1/10W
R458	1-216-809-11	METAL CHIP	100	5%	1/10W
R459	1-216-809-11	METAL CHIP	100	5%	1/10W
R460	1-216-809-11	METAL CHIP	100	5%	1/10W
R461	1-216-809-11	METAL CHIP	100	5%	1/10W
R463	1-216-809-11	METAL CHIP	100	5%	1/10W
R465	1-216-809-11	METAL CHIP	100	5%	1/10W
R469	1-216-809-11	METAL CHIP	100	5%	1/10W
R470	1-216-809-11	METAL CHIP	100	5%	1/10W
R471	1-216-809-11	METAL CHIP	100	5%	1/10W
R472	1-216-809-11	METAL CHIP	100	5%	1/10W
R473	1-216-809-11	METAL CHIP	100	5%	1/10W
R474	1-216-809-11	METAL CHIP	100	5%	1/10W
R475	1-216-809-11	METAL CHIP	100	5%	1/10W
R476	1-216-809-11	METAL CHIP	100	5%	1/10W
R477	1-216-809-11	METAL CHIP	100	5%	1/10W
R478	1-216-809-11	METAL CHIP	100	5%	1/10W
R479	1-216-809-11	METAL CHIP	100	5%	1/10W
					(GNZ888D)
R480	1-216-809-11	METAL CHIP	100	5%	1/10W
					(GNZ888D)
R481	1-216-809-11	METAL CHIP	100	5%	1/10W
R482	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R483	1-216-809-11	METAL CHIP	100	5%	1/10W
R484	1-216-809-11	METAL CHIP	100	5%	1/10W
R485	1-216-809-11	METAL CHIP	100	5%	1/10W
R486	1-216-821-11	METAL CHIP	1K	5%	1/10W
R487	1-216-809-11	METAL CHIP	100	5%	1/10W
R489	1-216-809-11	METAL CHIP	100	5%	1/10W
R490	1-216-809-11	METAL CHIP	100	5%	1/10W
R491	1-216-809-11	METAL CHIP	100	5%	1/10W
R492	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R493	1-216-815-11	METAL CHIP	330	5%	1/10W
					(E3,E15)
R493	1-216-819-11	METAL CHIP	680	5%	1/10W
					(E12)
R493	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(EA)
R493	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
					(E13)
R493	1-216-864-11	SHORT CHIP	0 (PH,SP,TH)		
R494	1-216-813-11	METAL CHIP	220	5%	1/10W
R495	1-216-813-11	METAL CHIP	220	5%	1/10W
R497	1-216-813-11	METAL CHIP	220	5%	1/10W
R500	1-216-821-11	METAL CHIP	1K	5%	1/10W
R508	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R509	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R524	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R525	1-216-849-11	METAL CHIP	220K	5%	1/10W
R532	1-216-864-11	SHORT CHIP	0		
R533	1-216-864-11	SHORT CHIP	0		
R534	1-216-864-11	SHORT CHIP	0		
R535	1-216-864-11	SHORT CHIP	0		
R544	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R545	1-216-845-11	METAL CHIP	100K	5%	1/10W
R546	1-216-821-11	METAL CHIP	1K	5%	1/10W
R547	1-216-821-11	METAL CHIP	1K	5%	1/10W
R548	1-216-839-11	METAL CHIP	33K	5%	1/10W
R549	1-216-821-11	METAL CHIP	1K	5%	1/10W
R550	1-216-839-11	METAL CHIP	33K	5%	1/10W
R574	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R575	1-216-849-11	METAL CHIP	220K	5%	1/10W
R576	1-216-841-11	METAL CHIP	47K	5%	1/10W
R577	1-216-845-11	METAL CHIP	100K	5%	1/10W
R578	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R579	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R580	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R582	1-216-864-11	SHORT CHIP	0		
R583	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R584	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R585	1-216-841-11	METAL CHIP	47K	5%	1/10W
R586	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R587	1-216-841-11	METAL CHIP	47K	5%	1/10W
R590	1-216-833-11	METAL CHIP	10K	5%	1/10W
R591	1-216-833-11	METAL CHIP	10K	5%	1/10W
R592	1-216-845-11	METAL CHIP	100K	5%	1/10W
R593	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2000	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2001	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2002	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2004	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2005	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2007	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2008	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2009	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2010	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2011	1-216-864-11	SHORT CHIP	0		
R2012	1-216-845-11	METAL CHIP	100K	5%	1/10W
R2014	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R2015	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2016	1-216-841-11	METAL CHIP	47K	5%	1/10W
R2017	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2019	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2020	1-216-864-11	SHORT CHIP	0		
R2021	1-216-864-11	SHORT CHIP	0		
R2022	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2024	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2025	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R2026	1-216-864-11	SHORT CHIP	0		
R2028	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R2029	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2030	1-216-864-11	SHORT CHIP	0		
R2031	1-216-837-11	METAL CHIP	22K	5%	1/10W
R2032	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R2034	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2035	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R2036	1-216-864-11	SHORT CHIP	0		
R2037	1-216-864-11	SHORT CHIP	0		
		< TRANSFORMER >			
T101	1-433-372-11	TRANSFORMER, BIAS OSCILLATION			

Ref. No.	Part No.	Description			Remark
		< VIBRATOR >			
X401	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)			
X402	1-795-058-21	VIBRATOR, CERAMIC (5MHz)			
**********					
	A-1225-297-A	MIC BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1400	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1401	1-124-257-00	ELECT	2.2uF	20%	50V
C1402	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1403	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1404	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C1405	1-124-261-00	ELECT	10uF	20%	50V
C1406	1-124-463-00	ELECT	0.1uF	20%	50V
C1407	1-124-257-00	ELECT	2.2uF	20%	50V
C1408	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1409	1-124-257-00	ELECT	2.2uF	20%	50V
C1413	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1419	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1423	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1424	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1426	1-124-261-00	ELECT	10uF	20%	50V
C1427	1-124-261-00	ELECT	10uF	20%	50V
C1428	1-124-589-11	ELECT	47uF	20%	16V
C1429	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1430	1-126-176-11	ELECT	220uF	20%	10V
C1431	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1432	1-124-589-11	ELECT	47uF	20%	16V
C1433	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1434	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1435	1-126-176-11	ELECT	220uF	20%	10V
C1450	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1451	1-124-257-00	ELECT	2.2uF	20%	50V
C1452	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1453	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1454	1-162-957-11	CERAMIC CHIP	220PF	5%	50V
C1455	1-124-261-00	ELECT	10uF	20%	50V
C1456	1-124-463-00	ELECT	0.1uF	20%	50V
C1457	1-124-257-00	ELECT	2.2uF	20%	50V
C1458	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1459	1-124-257-00	ELECT	2.2uF	20%	50V
C1469	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1470	1-136-497-81	FILM	0.1uF	5%	50V
C1472	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1473	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1474	1-136-497-81	FILM	0.1uF	5%	50V
C1475	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1476	1-126-960-11	ELECT	1uF	20%	50V
C1477	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C1478	1-124-463-00	ELECT	0.1uF	20%	50V
C1479	1-124-257-00	ELECT	2.2uF	20%	50V
C1480	1-124-261-00	ELECT	10uF	20%	50V
C1481	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1482	1-124-589-11	ELECT	47uF	20%	16V
C1483	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1484	1-126-163-11	ELECT	4.7uF	20%	50V

Ref. No.	Part No.	Description			Remark
C1485	1-124-464-11	ELECT	0.22uF	20%	50V
C1486	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1487	1-126-960-11	ELECT	1uF	20%	50V
C1488	1-126-960-11	ELECT	1uF	20%	50V
C1489	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1490	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1491	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C1492	1-126-163-11	ELECT	4.7uF	20%	50V
		< DIODE >			
D1401	6-501-579-01	DIODE MC2837			
D1402	6-501-579-01	DIODE MC2837			
D1404	6-501-579-01	DIODE MC2837			
D1406	6-501-579-01	DIODE MC2837			
D1421	6-501-167-01	DIODE UDZW-TE17-5.1B			
		< IC >			
IC1400	8-759-100-96	IC uPC4558G2			
IC1401	8-759-100-96	IC uPC4558G2			
IC1402	6-710-879-01	IC R2A15906SP			
		< JACK >			
J1400	1-817-630-11	JACK (LARGE TYPE) (MIC 2)			
J1402	1-764-592-11	JACK, PIN 3P (VIDEO INPUT VIDEO,AUDIO)			
J1450	1-817-630-11	JACK (LARGE TYPE) (MIC 1)			
		< JUMPER RESISTOR >			
JR1403	1-216-296-11	SHORT CHIP	0		
		< RESISTOR >			
R1400	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1401	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1402	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1403	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1404	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R1405	1-216-809-11	METAL CHIP	100	5%	1/10W
R1406	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1410	1-216-864-11	SHORT CHIP	0		
R1411	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1412	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1413	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1421	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1422	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1423	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1424	1-216-849-11	METAL CHIP	220K	5%	1/10W
R1450	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1451	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1452	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1453	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1454	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R1455	1-216-809-11	METAL CHIP	100	5%	1/10W
R1456	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1463	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1469	1-216-864-11	SHORT CHIP	0		
R1470	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1471	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1472	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1473	1-216-841-11	METAL CHIP	47K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1474	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1475	1-216-815-11	METAL CHIP	330	5%	1/10W
R1476	1-216-815-11	METAL CHIP	330	5%	1/10W
R1477	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1478	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1479	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1480	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1481	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1482	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1483	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1484	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1485	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1494	1-216-815-11	METAL CHIP	330	5%	1/10W
R1495	1-216-815-11	METAL CHIP	330	5%	1/10W
		< VARIABLE RESISTOR >			
RV1400	1-223-983-11	RES, VAR, CARBON 50K (MIC 2 LEVEL)			
RV1401	1-223-983-11	RES, VAR, CARBON 50K (MIC 1 LEVEL)			
RV1402	1-223-983-11	RES, VAR, CARBON 50K (ECHO LEVEL)			
**********					
	1-687-133-12	MOTOR (LD) BOARD **********			
**********					
	1-687-134-12	MOTOR (TB) BOARD **********			
		< CONNECTOR >			
CN742	1-784-727-11	CONNECTOR, FFC 5P			
**********					
	A-1225-308-A	POWER BOARD, COMPLETE (GNZ777D:E3,E15,PH,SP)			
	A-1225-319-A	POWER BOARD, COMPLETE (GNZ888D:E3,E15,PH,SP)			
	A-1258-346-A	POWER BOARD, COMPLETE (GNZ777D:EA)			
	A-1258-349-A	POWER BOARD, COMPLETE (GNZ777D:E12,E13,TH)			
	A-1258-352-A	POWER BOARD, COMPLETE (GNZ888D:EA)			
	A-1258-355-A	POWER BOARD, COMPLETE (GNZ888D:E12,TH) **********			
	1-533-217-41	HOLDER, FUSE			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
⚠C1101	1-165-529-11	MYLAR	0.22uF	10%	275V
⚠C1103	1-112-868-11	CERAMIC	330PF	10%	125V
⚠C1104	1-112-868-11	CERAMIC	330PF	10%	125V
⚠C1107	1-165-529-11	MYLAR	0.22uF	10%	275V
⚠C1109	1-112-867-11	CERAMIC	220PF	10%	125V
⚠C1110	1-112-867-11	CERAMIC	220PF	10%	125V
C1112	1-114-355-11	ELECT(BLOCK)	680uF	20%	220V (E3,E15,EA,PH,SP)
C1112	1-114-356-11	ELECT(BLOCK)	390uF	20%	450V (E12,E13,TH)
C1113	1-114-355-11	ELECT(BLOCK)	680uF	20%	220V (E3,E15,EA,PH,SP)
⚠C1115	1-112-867-11	CERAMIC	220PF	10%	125V

Ref. No.	Part No.	Description			Remark
C1116	1-117-370-11	CERAMIC CHIP	10uF		10V
C1117	1-112-335-11	FILM	0.0033uF	5%	400V
C1118	1-112-841-11	FILM	820PF	3%	1.5KV
C1119	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1120	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C1121	1-126-949-11	ELECT	220uF	20%	35V
C1122	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C1123	1-136-203-11	MYLAR	0.01uF	5%	630V
C1124	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C1125	1-114-178-21	ELECT	2200uF	20%	50V
C1126	1-114-178-21	ELECT	2200uF	20%	50V
C1129	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1130	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1131	1-164-362-11	CERAMIC CHIP	470PF	5%	50V
C1132	1-126-967-11	ELECT	47uF	20%	50V
C1134	1-131-976-11	ELECT	820uF	20%	25V
C1135	1-126-971-11	ELECT	470uF	20%	50V
C1137	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V
C1138	1-126-935-11	ELECT	470uF	20%	16V
C1139	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1140	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C1141	1-114-178-21	ELECT	2200uF	20%	50V (GNZ888D)
C1142	1-164-362-11	CERAMIC CHIP	470PF	5%	50V
C1147	1-128-551-11	ELECT	22uF	20%	63V
C1148	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C1151	1-126-971-11	ELECT	470uF	20%	50V (GNZ888D)
C1152	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V (GNZ888D)
C1153	1-126-964-11	ELECT	10uF	20%	50V
C1154	1-100-623-11	CERAMIC CHIP	0.1uF	10%	100V (GNZ888D)
C1200	1-165-136-11	CERAMIC	0.0033uF	10%	500V
C1202	1-107-444-11	CERAMIC	100PF	5%	2KV
C1203	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1206	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1207	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1208	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C1209	1-104-665-11	ELECT	100uF	20%	25V
C1210	1-126-965-11	ELECT	22uF	20%	50V
⚠C1212	1-112-867-11	CERAMIC	220PF	10%	125V
C1213	1-135-372-11	ELECT	470uF	20%	10V
C1214	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1216	1-128-951-21	ELECT	2200uF	20%	16V
C1217	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1218	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1219	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1220	1-112-474-11	CERAMIC	0.0022uF	10%	500V
C1222	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CN1101	1-564-243-11	PIN, CONNECTOR (3.96mm PITCH) 6P			(GNZ777D)
* CN1101	1-564-674-11	PIN, CONNECTOR (3.96mm PITCH) 8P			(GNZ888D)
* CN1200	1-564-510-11	PLUG, CONNECTOR 7P			
CNP1100	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D1100	8-719-082-57	DIODE D5SBA60F01	
D1101	6-501-496-01	DIODE R4KLB-LF015-303	(E3,E15,EA,PH,SP)
D1102	6-501-496-01	DIODE R4KLB-LF015-303	(E3,E15,EA,PH,SP)
D1103	6-500-241-01	DIODE SARS03	
D1106	8-719-030-33	DIODE EG01CV1	
D1107	8-719-947-79	DIODE MTZJ-T-72-22D	
D1108	8-719-947-79	DIODE MTZJ-T-72-22D	
D1109	8-719-947-79	DIODE MTZJ-T-72-22D	
D1110	8-719-063-74	DIODE D1NL20U-TR2	
D1111	6-501-179-01	DIODE UDZW-TE17-16B	
D1112	8-719-063-74	DIODE D1NL20U-TR2	
D1113	6-501-398-01	DIODE FCH20A20	
D1114	6-501-411-01	DIODE SF20NC15M (GNZ888D)	
D1115	6-501-167-01	DIODE UDZW-TE17-5.1B	
D1116	8-719-080-53	DIODE RK36LF-B3	
D1117	8-719-947-79	DIODE MTZJ-T-72-22D	
D1118	6-500-593-41	DIODE 10EDB60-TA2B5	
D1119	8-719-063-74	DIODE D1NL20U-TR2	
D1120	6-501-167-01	DIODE UDZW-TE17-5.1B	
D1125	8-719-404-50	DIODE MA111-TX	
D1126	8-719-404-50	DIODE MA111-TX	
D1200	8-719-058-74	DIODE 05NU42-TPA2	
D1202	8-719-063-74	DIODE D1NL20U-TR2	
D1203	8-719-947-79	DIODE MTZJ-T-72-22D	
D1204	8-719-063-74	DIODE D1NL20U-TR2	
D1205	8-719-947-79	DIODE MTZJ-T-72-22D	
D1206	8-719-947-79	DIODE MTZJ-T-72-22D	
D1207	8-719-063-74	DIODE D1NL20U-TR2	
D1208	6-501-175-01	DIODE UDZW-TE17-11B	
D1211	8-719-063-74	DIODE D1NL20U-TR2	
D1212	6-501-412-01	DIODE SF5S6	
D1213	8-719-080-53	DIODE RK36LF-B3	
D1214	8-719-921-40	DIODE MTZJ-4.7C	
D1215	8-719-947-79	DIODE MTZJ-T-72-22D	
		< IC >	
IC1100	6-709-168-01	IC MR5060	
IC1101	6-707-743-01	IC TA76L431S(TPE6,Q)	
IC1102	6-701-021-01	IC SI-8120JF	
IC1200	6-707-962-01	IC MR1722	
IC1201	6-707-743-01	IC TA76L431S(TPE6,Q)	
		< JUMPER RESISTOR >	
JR1101	1-216-864-11	SHORT CHIP 0	
JR1103	1-216-864-11	SHORT CHIP 0	
JR1105	1-216-864-11	SHORT CHIP 0	
JR1106	1-216-296-11	SHORT CHIP 0	
JR1107	1-216-296-11	SHORT CHIP 0	
JR1108	1-216-296-11	SHORT CHIP 0	
JR1109	1-216-296-11	SHORT CHIP 0	
		< COIL >	
L1100	1-457-058-21	INDUCTOR 10.8uH/16A	
L1101	1-457-484-11	COIL, CHOKE 10uH (GNZ888D)	
L1102	1-456-545-11	INDUCTOR 100uH	

POWER

Ref. No.	Part No.	Description				Remark
L1200	1-410-470-11	INDUCTOR	10uH			
L1201	1-456-545-11	INDUCTOR	100uH			
⚠LF1100	1-457-268-21	COIL, LINE FILTER	10mH (EA)			
⚠LF1101	1-457-268-21	COIL, LINE FILTER	10mH			
		< PHOTO COUPLER >				
⚠PC1100	6-600-438-01	PHOTO COUPLER	TLP421F(D4-GR)			
⚠PC1101	6-600-438-01	PHOTO COUPLER	TLP421F(D4-GR)			
⚠PC1102	6-600-438-01	PHOTO COUPLER	TLP421F(D4-GR)			
⚠PC1200	6-600-438-01	PHOTO COUPLER	TLP421F(D4-GR)			
		< TRANSISTOR >				
Q1100	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF			
Q1101	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF			
Q1102	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF			
Q1200	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF			
Q1203	6-551-460-01	FET	RSR025P03TL			
Q1204	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF			
Q1205	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF			
Q1206	6-551-460-01	FET	RSR025P03TL			
		< RESISTOR >				
⚠R1103	1-242-949-11	FUSIBLE	0.1	10%	1W	F
⚠R1105	1-215-929-11	METAL OXIDE	100K	5%	3W	F
⚠R1106	1-215-929-11	METAL OXIDE	100K	5%	3W	F
⚠R1108	1-216-343-00	METAL OXIDE	0.33	5%	1W	F
⚠R1109	1-243-669-11	METAL	0.05	5%	5W	F
R1110	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1111	1-216-838-11	METAL CHIP	27K	5%	1/10W	
R1112	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R1113	1-249-389-11	CARBON	4.7	5%	1/4W	F
R1114	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R1115	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R1116	1-216-864-11	SHORT CHIP	0			
R1117	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W	
⚠R1118	1-246-097-31	METAL OXIDE	1	5%	2W	F
⚠R1120	1-219-769-11	METAL	3.3M	5%	1/2W	F
R1121	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R1122	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R1123	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W	
R1124	1-218-887-11	METAL CHIP	47K	0.5%	1/10W	
R1126	1-216-864-11	SHORT CHIP	0			
R1127	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R1128	1-218-853-11	METAL CHIP	1.8K	0.5%	1/10W	
R1129	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R1130	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W	
R1131	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1132	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1133	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1135	1-216-864-11	SHORT CHIP	0			
R1136	1-216-864-11	SHORT CHIP	0			
R1137	1-247-895-00	CARBON	470K	5%	1/4W	
R1138	1-247-895-00	CARBON	470K	5%	1/4W	
R1139	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1140	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R1141	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1142	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R1144	1-216-833-11	METAL CHIP	10K	5%	1/10W	

Ref. No.	Part No.	Description				Remark
R1145	1-216-809-11	METAL CHIP	100	5%	1/10W	
R1146	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R1153	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R1154	1-216-853-11	METAL CHIP	470K	5%	1/10W	
R1155	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
⚠R1200	1-215-904-61	METAL OXIDE	100K	5%	2W	F
⚠R1201	1-246-106-11	METAL OXIDE	2.2	5%	1/2W	F
R1202	1-216-839-11	METAL CHIP	33K	5%	1/10W	
R1203	1-249-393-11	CARBON	10	5%	1/4W	F
R1207	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R1208	1-216-834-11	METAL CHIP	12K	5%	1/10W	
R1209	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R1210	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R1211	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R1212	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1214	1-249-381-11	CARBON	1	5%	1/4W	F
R1215	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R1216	1-216-813-11	METAL CHIP	220	5%	1/10W	
R1217	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R1218	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R1219	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
R1220	1-218-831-11	METAL CHIP	220	0.5%	1/10W	
R1221	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W	
R1223	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1224	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R1225	1-216-809-11	METAL CHIP	100	5%	1/10W	
R1226	1-216-857-11	METAL CHIP	1M	5%	1/10W	
R1227	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R1228	1-216-815-11	METAL CHIP	330	5%	1/10W	
R1229	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1230	1-216-821-11	METAL CHIP	1K	5%	1/10W	
⚠R1231	1-215-866-11	METAL OXIDE	330	5%	1W	F
R1232	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1233	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1234	1-216-841-11	METAL CHIP	47K	5%	1/10W	
⚠R1301	1-215-872-11	METAL OXIDE	3.3K	5%	1W	F (GNZ888D)
		< SWITCH >				
⚠SW1100	1-762-753-11	SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR) (E3,E15,EA,PH,SP)				
		< TRANSFORMER >				
⚠T1100	1-445-176-11	TRANSFORMER, SW REGULATOR				
⚠T1200	1-445-177-11	TRANSFORMER, SW REGULATOR				
		< THERMISTOR >				
⚠TH1100	1-805-841-21	THERMISTOR, NTC 3.0				
		< VARISTOR >				
⚠VD1100	1-805-482-11	VARISTOR				

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Ref. No.	Part No.	Description			Remark
	1-687-132-12	SENSOR BOARD			
		**********			
		< CONNECTOR >			
CN731	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE) 3P			
		< PHOTO SENSOR >			
IC731	6-600-564-01	PHOTO SENSOR RPI-579N1			
**********					
	A-1225-455-A	SMASTER BOARD, COMPLETE (GNZ777D)			
	A-1225-532-A	SMASTER BOARD, COMPLETE (GNZ888D)			
		**********			
		< CAPACITOR >			
C501	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C502	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C503	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C504	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C505	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C506	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C507	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C508	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C509	1-104-658-11	ELECT	100uF	20%	10V
C510	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C511	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C512	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C517	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C518	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C519	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C528	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C529	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C530	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C531	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C532	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C533	1-104-662-11	ELECT	22uF	20%	25V
C534	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C535	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C536	1-100-436-11	CERAMIC CHIP	0.033uF	10%	25V
C537	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C538	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C539	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C541	1-137-807-31	ELECT	100uF	20%	50V
C542	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C544	1-100-436-11	CERAMIC CHIP	0.033uF	10%	25V
C545	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C546	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C547	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C548	1-128-550-11	ELECT	2200uF	20%	50V
C549	1-137-807-31	ELECT	100uF	20%	50V
C550	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C551	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C552	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C553	1-104-662-11	ELECT	22uF	20%	25V
C554	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C555	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C556	1-100-436-11	CERAMIC CHIP	0.033uF	10%	25V
C557	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C558	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C559	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C561	1-137-807-31	ELECT	100uF	20%	50V
C562	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C564	1-100-436-11	CERAMIC CHIP	0.033uF	10%	25V
C565	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C566	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C567	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C568	1-128-550-11	ELECT	2200uF	20%	50V
C569	1-137-807-31	ELECT	100uF	20%	50V
C580	1-135-618-11	MYLAR	1uF	5%	63V
C581	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V
C582	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C583	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C584	1-135-618-11	MYLAR	1uF	5%	63V
C585	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V
C586	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C587	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C590	1-135-618-11	MYLAR	1uF	5%	63V
C591	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V
C592	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C593	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C594	1-135-618-11	MYLAR	1uF	5%	63V
C595	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V
C596	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C597	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C601	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNZ888D)
C602	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNZ888D)
C603	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNZ888D)
C604	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C605	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C606	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C607	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C608	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C609	1-104-658-11	ELECT	100uF	20%	10V (GNZ888D)
C610	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C611	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C612	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C613	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C617	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNZ888D)
C618	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNZ888D)
C619	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNZ888D)
C631	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (GNZ888D)

SMASTER

Ref. No.	Part No.	Description			Remark
C632	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C633	1-126-933-11	ELECT	100uF	20%	16V (GNZ888D)
C634	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C635	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (GNZ888D)
C636	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (GNZ888D)
C637	1-100-436-11	CERAMIC CHIP	0.033uF	10%	25V (GNZ888D)
C638	1-162-961-11	CERAMIC CHIP	330PF	10%	50V (GNZ888D)
C639	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V (GNZ888D)
C640	1-112-246-11	ELECT	100uF	20%	35V (GNZ888D)
C641	1-112-246-11	ELECT	100uF	20%	35V (GNZ888D)
C642	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V (GNZ888D)
C643	1-162-961-11	CERAMIC CHIP	330PF	10%	50V (GNZ888D)
C644	1-100-436-11	CERAMIC CHIP	0.033uF	10%	25V (GNZ888D)
C645	1-100-436-11	CERAMIC CHIP	0.033uF	10%	25V (GNZ888D)
C646	1-162-961-11	CERAMIC CHIP	330PF	10%	50V (GNZ888D)
C647	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V (GNZ888D)
C648	1-112-246-11	ELECT	100uF	20%	35V (GNZ888D)
C649	1-112-246-11	ELECT	100uF	20%	35V (GNZ888D)
C650	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V (GNZ888D)
C651	1-162-961-11	CERAMIC CHIP	330PF	10%	50V (GNZ888D)
C652	1-100-436-11	CERAMIC CHIP	0.033uF	10%	25V (GNZ888D)
C653	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (GNZ888D)
C654	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V (GNZ888D)
C655	1-126-953-11	ELECT	2200uF	20%	35V (GNZ888D)
C656	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V (GNZ888D)
C657	1-126-953-11	ELECT	2200uF	20%	35V (GNZ888D)
C680	1-137-198-81	FILM	1uF	5%	50V (GNZ888D)
C681	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V (GNZ888D)
C682	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ888D)
C683	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ888D)
C684	1-137-198-81	FILM	1uF	5%	50V (GNZ888D)
C685	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V (GNZ888D)
C686	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ888D)
C687	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ888D)
C690	1-137-198-81	FILM	1uF	5%	50V (GNZ888D)
C691	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V (GNZ888D)
C692	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ888D)
C693	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ888D)
C694	1-137-198-81	FILM	1uF	5%	50V (GNZ888D)
C695	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V (GNZ888D)
C696	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ888D)
C697	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ888D)
C701	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNZ888D)
C702	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNZ888D)
C703	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNZ888D)
C704	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C705	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C706	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C707	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C708	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C709	1-104-658-11	ELECT	100uF	20%	10V (GNZ888D)
C710	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C711	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C712	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C713	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C717	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNZ888D)
C718	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNZ888D)
C719	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNZ888D)
C730	1-126-961-11	ELECT	2.2uF	20%	50V
C731	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (GNZ888D)
C732	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C733	1-104-662-11	ELECT	22uF	20%	25V (GNZ888D)
C734	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)

Ref. No.	Part No.	Description			Remark
C735	1-127-573-11	CERAMIC CHIP	1uF	10%	16V (GNZ888D)
C736	1-100-436-11	CERAMIC CHIP	0.033uF	10%	25V (GNZ888D)
C737	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V (GNZ888D)
C738	1-112-246-11	ELECT	100uF	20%	35V (GNZ888D)
C740	1-115-412-11	CERAMIC CHIP	680PF	5%	25V (GNZ888D)
C741	1-115-412-11	CERAMIC CHIP	680PF	5%	25V (GNZ888D)
C742	1-115-412-11	CERAMIC CHIP	680PF	5%	25V (GNZ888D)
C743	1-115-412-11	CERAMIC CHIP	680PF	5%	25V (GNZ888D)
C744	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V (GNZ888D)
C745	1-112-246-11	ELECT	100uF	20%	35V (GNZ888D)
C747	1-100-436-11	CERAMIC CHIP	0.033uF	10%	25V (GNZ888D)
C748	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V (GNZ888D)
C749	1-126-953-11	ELECT	2200uF	20%	35V (GNZ888D)
C780	1-137-198-81	FILM	1uF	5%	50V (GNZ888D)
C781	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V (GNZ888D)
C782	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ888D)
C783	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ888D)
C784	1-137-198-81	FILM	1uF	5%	50V (GNZ888D)
C785	1-125-898-11	CERAMIC CHIP	0.22uF	10%	50V (GNZ888D)
C786	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ888D)
C787	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (GNZ888D)
C788	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNZ888D)
C792	1-126-957-11	ELECT	0.22uF	20%	50V (GNZ888D)
C793	1-126-957-11	ELECT	0.22uF	20%	50V
C800	1-124-248-00	ELECT	22uF	20%	25V
C801	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C802	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C803	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C804	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C805	1-104-658-11	ELECT	100uF	20%	10V
C806	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C810	1-104-658-11	ELECT	100uF	20%	10V
C811	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C812	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C813	1-126-933-11	ELECT	100uF	20%	16V (GNZ888D)
C814	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNZ888D)
C815	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNZ888D)
C816	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GNZ888D)
C817	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GNZ888D)
C818	1-126-933-11	ELECT	100uF	20%	16V (GNZ888D)
C824	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C830	1-126-964-11	ELECT	10uF	20%	50V
C850	1-117-370-11	CERAMIC CHIP	10uF		10V
C855	1-117-370-11	CERAMIC CHIP	10uF		10V
C860	1-117-370-11	CERAMIC CHIP	10uF		10V (GNZ888D)
C863	1-126-964-11	ELECT	10uF	20%	50V (GNZ888D)
C865	1-117-370-11	CERAMIC CHIP	10uF		10V (GNZ888D)
C870	1-117-370-11	CERAMIC CHIP	10uF		10V (GNZ888D)
C871	1-216-864-11	SHORT CHIP	0		
C872	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C874	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C875	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C876	1-216-864-11	SHORT CHIP	0		
C877	1-216-864-11	SHORT CHIP	0		
C878	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C879	1-216-864-11	SHORT CHIP	0		
C880	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C881	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C882	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C883	1-126-925-11	ELECT	470uF	20%	10V
C884	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C885	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C886	1-126-935-11	ELECT	470uF	20%	16V
C887	1-126-925-11	ELECT	470uF	20%	10V
C888	1-119-774-11	ELECT	100uF	20%	16V
C889	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C890	1-119-774-11	ELECT	100uF	20%	16V
C891	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C892	1-162-927-11	CERAMIC CHIP	100PF	5%	50V

< CONNECTOR >

CN500	1-784-776-11	CONNECTOR, FFC 15P (GNZ777D)	
CN500	1-784-778-11	CONNECTOR, FFC 17P (GNZ888D)	
* CN501	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P (GNZ777D)	
* CN501	1-564-714-11	PIN, CONNECTOR (SMALL TYPE) 12P	(GNZ888D)
CN503	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P	
CN812	1-785-314-11	PIN, CONNECTOR (STRAIGHT) 2P (GNZ888D)	

< DIODE >

D531	6-501-484-01	DIODE P6SMB62AT3
D532	6-501-485-01	DIODE EC10UA20
D533	6-501-484-01	DIODE P6SMB62AT3
D534	6-501-485-01	DIODE EC10UA20
D551	6-501-484-01	DIODE P6SMB62AT3
D552	6-501-485-01	DIODE EC10UA20
D553	6-501-484-01	DIODE P6SMB62AT3

SMASTER

Ref. No.	Part No.	Description	Remark
D554	6-501-485-01	DIODE EC10UA20	
D651	6-500-260-01	DIODE P6SMB39AT3 (GNZ888D)	
D652	6-500-260-01	DIODE P6SMB39AT3 (GNZ888D)	
D653	6-500-260-01	DIODE P6SMB39AT3 (GNZ888D)	
D654	6-500-260-01	DIODE P6SMB39AT3 (GNZ888D)	
D730	6-500-260-01	DIODE P6SMB39AT3 (GNZ888D)	
D732	6-500-260-01	DIODE P6SMB39AT3 (GNZ888D)	
D785	6-501-183-01	DIODE UDZW-TE17-24B (GNZ888D)	
D786	6-501-181-01	DIODE UDZW-TE17-20B (GNZ888D)	
D820	8-719-404-50	DIODE MA111-TX	
D880	8-719-404-50	DIODE MA111-TX	
D881	8-719-404-50	DIODE MA111-TX	
D882	8-719-404-50	DIODE MA111-TX	
D883	8-719-404-50	DIODE MA111-TX	
D884	1-216-295-11	SHORT CHIP 0	
D885	1-216-295-11	SHORT CHIP 0	
D886	8-719-404-50	DIODE MA111-TX	
D887	8-719-404-50	DIODE MA111-TX	
D888	1-216-295-11	SHORT CHIP 0	
D889	1-216-295-11	SHORT CHIP 0	
D890	1-216-295-11	SHORT CHIP 0	
D891	1-216-295-11	SHORT CHIP 0	
D892	8-719-404-50	DIODE MA111-TX	
D893	8-719-404-50	DIODE MA111-TX	
D894	1-216-295-11	SHORT CHIP 0	
D895	1-216-295-11	SHORT CHIP 0	
		< EARTH TERMINAL >	
* EP881	1-537-738-21	TERMINAL, EARTH	
		< JUMPER RESISTOR >	
FB800	1-216-864-11	SHORT CHIP 0	
FB801	1-216-864-11	SHORT CHIP 0	
FB863	1-216-864-11	SHORT CHIP 0 (GNZ888D)	
		< FILTER >	
FL800	1-234-494-21	FILTER, EMI REMOVAL (SMD)	
FL801	1-234-494-21	FILTER, EMI REMOVAL (SMD)	
FL810	1-234-494-21	FILTER, EMI REMOVAL (SMD)	
		< IC >	
IC500	6-707-939-01	IC CXD9843AR	
IC530	6-710-878-01	IC CXD9897TN	
IC550	6-710-878-01	IC CXD9897TN	
IC600	6-707-939-01	IC CXD9843AR (GNZ888D)	
IC630	6-710-134-01	IC CXD9845AM (GNZ888D)	
IC700	6-707-939-01	IC CXD9843AR (GNZ888D)	
IC730	6-708-921-01	IC CXD9883M (GNZ888D)	
IC785	6-707-743-01	IC TA76L431S(TPE6,Q) (GNZ888D)	
IC800	6-701-189-01	IC MC74VHC1GU04DFT1	
IC803	6-701-189-01	IC MC74VHC1GU04DFT1	
IC810	6-702-300-01	IC TK11118CSCL-G	
IC812	8-759-359-49	IC NJM3414AV(TE2) (GNZ888D)	
IC880	8-759-359-49	IC NJM3414AV(TE2)	
		< JUMPER RESISTOR >	
JR784	1-216-864-11	SHORT CHIP 0 (GNZ888D)	

Ref. No.	Part No.	Description	Remark
		< COIL >	
L580	1-457-237-11	INDUCTOR 10uH	
L581	1-457-237-11	INDUCTOR 10uH	
L590	1-457-237-11	INDUCTOR 10uH	
L591	1-457-237-11	INDUCTOR 10uH	
L680	1-457-235-11	INDUCTOR 10uH (GNZ888D)	
L681	1-457-235-11	INDUCTOR 10uH (GNZ888D)	
L690	1-457-235-11	INDUCTOR 10uH (GNZ888D)	
L691	1-457-235-11	INDUCTOR 10uH (GNZ888D)	
L780	1-457-235-11	INDUCTOR 10uH (GNZ888D)	
L781	1-457-235-11	INDUCTOR 10uH (GNZ888D)	
L800	1-216-295-11	SHORT CHIP 0	
L801	1-412-939-11	INDUCTOR 1uH	
L802	1-216-295-11	SHORT CHIP 0	
		< TRANSISTOR >	
Q785	6-551-182-01	FET 2SK3755-AZ (GNZ888D)	
Q786	8-729-600-22	TRANSISTOR 2SA1235-F (GNZ888D)	
Q787	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF (GNZ888D)	
Q788	8-729-600-22	TRANSISTOR 2SA1235-F	
Q789	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q840	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q850	8-729-620-10	TRANSISTOR 2SA1602TP-1EF	
Q851	8-729-620-10	TRANSISTOR 2SA1602TP-1EF	
Q855	8-729-620-10	TRANSISTOR 2SA1602TP-1EF	
Q856	8-729-620-10	TRANSISTOR 2SA1602TP-1EF	
Q860	8-729-620-10	TRANSISTOR 2SA1602TP-1EF (GNZ888D)	
Q861	8-729-620-10	TRANSISTOR 2SA1602TP-1EF (GNZ888D)	
Q865	8-729-620-10	TRANSISTOR 2SA1602TP-1EF (GNZ888D)	
Q866	8-729-620-10	TRANSISTOR 2SA1602TP-1EF (GNZ888D)	
Q870	8-729-620-10	TRANSISTOR 2SA1602TP-1EF (GNZ888D)	
Q871	8-729-620-10	TRANSISTOR 2SA1602TP-1EF (GNZ888D)	
		< RESISTOR >	
R503	1-216-809-11	METAL CHIP 100 5% 1/10W	
R505	1-216-817-11	METAL CHIP 470 5% 1/10W	
R506	1-216-817-11	METAL CHIP 470 5% 1/10W	
R507	1-216-817-11	METAL CHIP 470 5% 1/10W	
R509	1-216-864-11	SHORT CHIP 0	
R510	1-216-864-11	SHORT CHIP 0	
R511	1-216-864-11	SHORT CHIP 0	
R512	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R515	1-216-864-11	SHORT CHIP 0	
R516	1-216-809-11	METAL CHIP 100 5% 1/10W	
R517	1-216-809-11	METAL CHIP 100 5% 1/10W	
R519	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R520	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R521	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R523	1-216-809-11	METAL CHIP 100 5% 1/10W	
R524	1-216-809-11	METAL CHIP 100 5% 1/10W	
R526	1-216-809-11	METAL CHIP 100 5% 1/10W	
R529	1-216-809-11	METAL CHIP 100 5% 1/10W	
R530	1-216-296-11	SHORT CHIP 0	
R531	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R532	1-216-809-11	METAL CHIP 100 5% 1/10W	
R533	1-216-809-11	METAL CHIP 100 5% 1/10W	
R535	1-216-839-11	METAL CHIP 33K 5% 1/10W	

Ref. No.	Part No.	Description			Remark
R537	1-216-809-11	METAL CHIP	100	5%	1/10W
R538	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R543	1-216-797-11	METAL CHIP	10	5%	1/10W
R544	1-216-296-11	SHORT CHIP	0		
R545	1-219-107-11	RES-CHIP	1.5	5%	1/8W
R546	1-216-142-00	RES-CHIP	4.7	5%	1/8W
R547	1-219-107-11	RES-CHIP	1.5	5%	1/8W
R548	1-216-142-00	RES-CHIP	4.7	5%	1/8W
R550	1-216-296-11	SHORT CHIP	0		
R551	1-216-809-11	METAL CHIP	100	5%	1/10W
R552	1-216-809-11	METAL CHIP	100	5%	1/10W
R553	1-216-809-11	METAL CHIP	100	5%	1/10W
R555	1-216-839-11	METAL CHIP	33K	5%	1/10W
R558	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R563	1-216-797-11	METAL CHIP	10	5%	1/10W
R564	1-216-296-11	SHORT CHIP	0		
R565	1-219-107-11	RES-CHIP	1.5	5%	1/8W
R566	1-216-142-00	RES-CHIP	4.7	5%	1/8W
R567	1-219-107-11	RES-CHIP	1.5	5%	1/8W
R568	1-216-142-00	RES-CHIP	4.7	5%	1/8W
R581	1-216-790-11	METAL CHIP	2.7	5%	1/10W
R583	1-216-790-11	METAL CHIP	2.7	5%	1/10W
R591	1-216-790-11	METAL CHIP	2.7	5%	1/10W
R593	1-216-790-11	METAL CHIP	2.7	5%	1/10W
R603	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R605	1-216-817-11	METAL CHIP	470	5%	1/10W (GNZ888D)
R606	1-216-817-11	METAL CHIP	470	5%	1/10W (GNZ888D)
R607	1-216-817-11	METAL CHIP	470	5%	1/10W (GNZ888D)
R609	1-216-864-11	SHORT CHIP	0 (GNZ888D)		
R610	1-216-864-11	SHORT CHIP	0 (GNZ888D)		
R612	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ888D)
R615	1-216-864-11	SHORT CHIP	0		
R616	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R617	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R619	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R620	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R621	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R622	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R623	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R624	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R625	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R631	1-216-791-11	METAL CHIP	3.3	5%	1/10W (GNZ888D)
R632	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R633	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R636	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R639	1-216-837-11	METAL CHIP	22K	5%	1/10W (GNZ888D)
R648	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R651	1-216-791-11	METAL CHIP	3.3	5%	1/10W (GNZ888D)
R652	1-216-791-11	METAL CHIP	3.3	5%	1/10W (GNZ888D)
R653	1-216-791-11	METAL CHIP	3.3	5%	1/10W (GNZ888D)
R654	1-216-800-11	METAL CHIP	18	5%	1/10W (GNZ888D)
R655	1-216-800-11	METAL CHIP	18	5%	1/10W (GNZ888D)
R656	1-216-800-11	METAL CHIP	18	5%	1/10W (GNZ888D)
R657	1-216-800-11	METAL CHIP	18	5%	1/10W (GNZ888D)
R658	1-216-791-11	METAL CHIP	3.3	5%	1/10W (GNZ888D)
R681	1-216-790-11	METAL CHIP	2.7	5%	1/10W (GNZ888D)
R683	1-216-790-11	METAL CHIP	2.7	5%	1/10W (GNZ888D)
R691	1-216-790-11	METAL CHIP	2.7	5%	1/10W (GNZ888D)
R697	1-216-790-11	METAL CHIP	2.7	5%	1/10W (GNZ888D)
R703	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R705	1-216-817-11	METAL CHIP	470	5%	1/10W (GNZ888D)
R706	1-216-817-11	METAL CHIP	470	5%	1/10W (GNZ888D)
R707	1-216-817-11	METAL CHIP	470	5%	1/10W (GNZ888D)
R709	1-216-864-11	SHORT CHIP	0 (GNZ888D)		
R710	1-216-864-11	SHORT CHIP	0 (GNZ888D)		
R712	1-216-833-11	METAL CHIP	10K	5%	1/10W (GNZ888D)
R716	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R717	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R719	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R720	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R721	1-216-821-11	METAL CHIP	1K	5%	1/10W (GNZ888D)
R726	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R729	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R730	1-216-296-11	SHORT CHIP	0 (GNZ888D)		
R731	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R732	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)
R733	1-216-809-11	METAL CHIP	100	5%	1/10W (GNZ888D)

SMASTER

Ref. No.	Part No.	Description			Remark
R735	1-216-837-11	METAL CHIP	22K	5%	1/10W (GNZ888D)
R743	1-216-797-11	METAL CHIP	10	5%	1/10W (GNZ888D)
R744	1-216-296-11	SHORT CHIP	0 (GNZ888D)		
R746	1-216-801-11	METAL CHIP	22	5%	1/10W (GNZ888D)
R747	1-216-801-11	METAL CHIP	22	5%	1/10W (GNZ888D)
R780	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GNZ888D)
R781	1-216-790-11	METAL CHIP	2.7	5%	1/10W (GNZ888D)
R782	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ888D)
R783	1-216-790-11	METAL CHIP	2.7	5%	1/10W (GNZ888D)
R784	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
⚠R785	1-243-669-11	METAL	0.05	5%	5W F (GNZ888D)
R786	1-216-830-11	METAL CHIP	5.6K	5%	1/10W (GNZ888D)
R787	1-216-841-11	METAL CHIP	47K	5%	1/10W (GNZ888D)
R788	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ888D)
R789	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W (GNZ888D)
R790	1-218-864-11	METAL CHIP	5.1K	0.5%	1/10W (GNZ888D)
R791	1-218-883-11	METAL CHIP	33K	0.5%	1/10W (GNZ888D)
R792	1-216-864-11	SHORT CHIP	0 (GNZ888D)		
R793	1-216-864-11	SHORT CHIP	0 (GNZ888D)		
R794	1-216-837-11	METAL CHIP	22K	5%	1/10W (GNZ888D)
R795	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ888D)
⚠R796	1-243-669-11	METAL	0.05	5%	5W F
R797	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R798	1-216-837-11	METAL CHIP	22K	5%	1/10W
R799	1-216-845-11	METAL CHIP	100K	5%	1/10W
R800	1-216-857-11	METAL CHIP	1M	5%	1/10W
R801	1-216-811-11	METAL CHIP	150	5%	1/10W
R802	1-216-864-11	SHORT CHIP	0		
R804	1-216-864-11	SHORT CHIP	0		
R805	1-216-864-11	SHORT CHIP	0		
R809	1-216-806-11	METAL CHIP	56	5%	1/10W
R811	1-216-845-11	METAL CHIP	100K	5%	1/10W
R812	1-216-839-11	METAL CHIP	33K	5%	1/10W (GNZ888D)
R813	1-216-837-11	METAL CHIP	22K	5%	1/10W (GNZ888D)
R814	1-216-837-11	METAL CHIP	22K	5%	1/10W (GNZ888D)
R815	1-216-839-11	METAL CHIP	33K	5%	1/10W (GNZ888D)
R816	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ888D)
R817	1-216-837-11	METAL CHIP	22K	5%	1/10W (GNZ888D)
R818	1-216-837-11	METAL CHIP	22K	5%	1/10W (GNZ888D)
R819	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GNZ888D)
R820	1-216-837-11	METAL CHIP	22K	5%	1/10W
R821	1-216-828-11	METAL CHIP	3.9K	5%	1/10W (GNZ777D)
R821	1-220-158-11	METAL CHIP	3.6K	5%	1/10W (GNZ888D)
R822	1-216-837-11	METAL CHIP	22K	5%	1/10W
R823	1-216-837-11	METAL CHIP	22K	5%	1/10W
R826	1-216-864-11	SHORT CHIP	0		
R827	1-216-864-11	SHORT CHIP	0		
R828	1-216-864-11	SHORT CHIP	0		
R840	1-216-845-11	METAL CHIP	100K	5%	1/10W
R841	1-216-864-11	SHORT CHIP	0		
R850	1-216-845-11	METAL CHIP	100K	5%	1/10W
R851	1-216-845-11	METAL CHIP	100K	5%	1/10W
R852	1-216-845-11	METAL CHIP	100K	5%	1/10W
R855	1-216-845-11	METAL CHIP	100K	5%	1/10W
R856	1-216-845-11	METAL CHIP	100K	5%	1/10W
R857	1-216-845-11	METAL CHIP	100K	5%	1/10W
R858	1-216-817-11	METAL CHIP	470	5%	1/10W
R859	1-216-817-11	METAL CHIP	470	5%	1/10W
R860	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ888D)
R861	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ888D)
R862	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ888D)
R863	1-216-864-11	SHORT CHIP	0 (GNZ888D)		
R865	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ888D)
R866	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ888D)
R867	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ888D)
R870	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ888D)
R871	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ888D)
R872	1-216-845-11	METAL CHIP	100K	5%	1/10W (GNZ888D)
R880	1-216-837-11	METAL CHIP	22K	5%	1/10W
R881	1-216-837-11	METAL CHIP	22K	5%	1/10W
R882	1-216-837-11	METAL CHIP	22K	5%	1/10W
R883	1-216-837-11	METAL CHIP	22K	5%	1/10W
R884	1-216-839-11	METAL CHIP	33K	5%	1/10W
R885	1-216-839-11	METAL CHIP	33K	5%	1/10W
R886	1-216-864-11	SHORT CHIP	0		
R887	1-216-837-11	METAL CHIP	22K	5%	1/10W
R888	1-216-837-11	METAL CHIP	22K	5%	1/10W
R889	1-216-837-11	METAL CHIP	22K	5%	1/10W
R890	1-216-837-11	METAL CHIP	22K	5%	1/10W
R891	1-216-839-11	METAL CHIP	33K	5%	1/10W
R892	1-216-864-11	SHORT CHIP	0		
R893	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R894	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R895	1-216-839-11	METAL CHIP	33K	5%	1/10W

Ref. No.	Part No.	Description			Remark
		< VIBRATOR >			
X800	1-795-660-21	QUARTZ CRYSTAL UNIT (49MHz)			
**********					
		SPEAKER BOARD			
		**********			
		< CAPACITOR >			
C1502	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1512	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1522	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1532	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1602	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ888D)
C1612	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ888D)
C1622	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ888D)
C1632	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ888D)
C1722	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ888D)
C1732	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GNZ888D)
		< CONNECTOR >			
* CN1500	1-564-241-11	PIN, CONNECTOR (3.96mm PITCH) 4P			
CN1601	1-564-507-11	PLUG, CONNECTOR 4P (GNZ888D)			
CN1700	1-564-505-11	PLUG, CONNECTOR 2P (GNZ888D)			
		< EARTH TERMINAL >			
* EP1500	1-537-738-21	TERMINAL, EARTH			
* EP1501	1-537-738-21	TERMINAL, EARTH			
		< TERMINAL BOARD >			
TM1500	1-820-052-11	TERMINAL BOARD (SPEAKER) (FRONT SPEAKER,SURROUND SPEAKER, CENTER SPEAKER) (GNZ888D)			
TM1500	1-820-067-11	TERMINAL BOARD (SPEAKER) (FRONT SPEAKER) (GNZ777D)			
**********					
	1-687-669-12	SW BOARD			
		**********			
		< SWITCH >			
S751	1-786-514-11	SWITCH, LEVER (SLIDE) (OPEN/CLOSE DETECT)			
**********					
	A-1225-305-A	VIDEO BOARD, COMPLETE			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
C1850	1-126-916-11	ELECT	1000uF	20%	6.3V
C1853	1-126-960-11	ELECT	1uF	20%	50V
C1854	1-126-960-11	ELECT	1uF	20%	50V
C1855	1-126-960-11	ELECT	1uF	20%	50V
C1856	1-126-965-11	ELECT	22uF	20%	50V
C1857	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1858	1-126-960-11	ELECT	1uF	20%	50V
C1859	1-126-960-11	ELECT	1uF	20%	50V
C1860	1-126-960-11	ELECT	1uF	20%	50V
C1861	1-104-658-11	ELECT	100uF	20%	10V
C1862	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1863	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1864	1-126-916-11	ELECT	1000uF	20%	6.3V
C1865	1-126-916-11	ELECT	1000uF	20%	6.3V
C1866	1-126-916-11	ELECT	1000uF	20%	6.3V
C1867	1-126-916-11	ELECT	1000uF	20%	6.3V
C1868	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1869	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1870	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1871	1-216-864-11	SHORT CHIP	0		
C1873	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1874	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1875	1-216-864-11	SHORT CHIP	0		
C1876	1-216-864-11	SHORT CHIP	0		
C1882	1-126-960-11	ELECT	1uF	20%	50V
C1883	1-126-926-11	ELECT	1000uF	20%	10V
C1884	1-126-960-11	ELECT	1uF	20%	50V
C1885	1-126-916-11	ELECT	1000uF	20%	6.3V
C1886	1-126-960-11	ELECT	1uF	20%	50V
C1887	1-126-916-11	ELECT	1000uF	20%	6.3V
C1888	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1889	1-104-658-11	ELECT	100uF	20%	10V
C1891	1-126-964-11	ELECT	10uF	20%	50V
C1892	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1893	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CN1880	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			
CN1966	1-779-281-11	CONNECTOR, FFC (LIF(NON-ZIF)) 13P			
CN1967	1-785-314-11	PIN, CONNECTOR (STRAIGHT) 2P			
		< DIODE >			
D1888	6-501-167-01	DIODE UDZW-TE17-5.1B			
		< GROUND TERMINAL >			
EPT1970	1-537-738-21	TERMINAL, GROUND			
		< JUMPER RESISTOR >			
FB1971	1-216-864-11	SHORT CHIP	0		
FB1972	1-216-864-11	SHORT CHIP	0		
FB1973	1-216-864-11	SHORT CHIP	0		
FB1974	1-216-864-11	SHORT CHIP	0		
FB1975	1-216-864-11	SHORT CHIP	0		
FB1976	1-216-864-11	SHORT CHIP	0		
FB1979	1-216-864-11	SHORT CHIP	0		
FB1980	1-216-864-11	SHORT CHIP	0		
		< IC >			
IC1801	6-710-470-01	IC MM1758AFBE			
IC1802	8-759-653-07	IC PQ09RD21J00H			
IC1803	6-710-632-01	IC PQ033RDC1SZF			
IC1804	8-759-471-81	IC PQ05RD11J00H			
IC1805	8-759-295-90	IC NJM2244M-TE2			

VIDEO **VOLUME**

Ref. No.	Part No.	Description			Remark
		< JACK >			
J1900	1-793-483-11	JACK, PIN 3P (COMPONENT VIDEO OUT)			
J1902	1-780-522-11	TERMINAL (Y/C+1P) (S VIDEO OUT, VIDEO OUT)			
		< JUMPER RESISTOR >			
JR1885	1-216-296-11	SHORT CHIP	0		
JR1910	1-216-864-11	SHORT CHIP	0		
		< COIL >			
L1888	1-414-183-41	INDUCTOR	10uH		
L1950	1-414-183-41	INDUCTOR	10uH		
		< TRANSISTOR >			
Q1970	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q1971	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
		< RESISTOR >			
R1888	1-216-815-11	METAL CHIP	330	5%	1/10W
R1889	1-216-815-11	METAL CHIP	330	5%	1/10W
R1929	1-216-809-11	METAL CHIP	100	5%	1/10W
R1930	1-216-809-11	METAL CHIP	100	5%	1/10W
R1931	1-216-808-11	METAL CHIP	82	5%	1/10W
R1932	1-216-808-11	METAL CHIP	82	5%	1/10W
R1933	1-218-285-11	METAL CHIP	75	5%	1/10W
R1934	1-218-285-11	METAL CHIP	75	5%	1/10W
R1935	1-216-864-11	SHORT CHIP	0		
R1936	1-216-809-11	METAL CHIP	100	5%	1/10W
R1937	1-218-285-11	METAL CHIP	75	5%	1/10W
R1938	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1939	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1940	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1941	1-216-807-11	METAL CHIP	68	5%	1/10W
R1942	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1947	1-216-833-11	METAL CHIP	10K	5%	1/10W
**********					
		VOLUME BOARD			
		**********			
		< CAPACITOR >			
C1334	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< DIODE >			
D1312	6-501-579-01	DIODE	MC2837		
		< ROTARY ENCODER >			
S1325	1-418-725-51	ENCODER, ROTARY (12 TYPE) (MASTER VOLUME)			
S1326	1-478-133-11	ENCODER, ROTARY (⏮ OPERATION DIAL ⏭)			
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Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
54	1-832-896-21	CABLE, FLEXIBLE FLAT (25 CORE)	
56	1-827-720-11	WIRE (FLAT TYPE) (11 CORE)	
57	1-417-657-11	DECK, MECHA	
201	1-832-814-21	CABLE, FLEXIBLE FLAT (9 CORE)	
203	1-828-973-11	WIRE (FLAT TYPE) (13 CORE)	
209	1-828-985-11	WIRE (FLAT TYPE) (15 CORE) (GNZ777D)	
209	1-828-995-11	WIRE (FLAT TYPE) (17 CORE) (GNZ888D)	
212	1-457-369-11	CORE, FERRITE	
⚠214	1-777-071-83	CORD, POWER	
⚠216	1-569-008-22	ADAPTOR, CONVERSION 2P (E3,E15,PH,SP,EA)	
⚠217	1-770-019-61	ADAPTOR, CONVERSION PLUG (EA)	
252	1-828-589-11	WIRE (FLAT TYPE) (13 CORE)	
253	1-828-326-11	WIRE (FLAT TYPE) (13 CORE)	
254	1-828-623-11	WIRE (FLAT TYPE) (19 CORE)	
302	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
371	1-828-772-51	WIRE (FLAT TYPE) (24 CORE)	
⚠372	8-820-322-04	OPTICAL PICK-UP (KHM313CAB/C2RP)	
⚠F1100	1-532-506-33	FUSE (6.3A/250V)	
FAN901	1-787-400-11	D.C. FAN	
M741	A-1108-965-A	MOTOR ASSY, TABLE (TABLE)	
M751	A-1108-966-A	MOTOR ASSY, LOADING (LOADING)	
RE701	1-477-680-12	ENCODER, ROTARY	
TU901	1-693-734-11	TUNER (FM/AM) (ANTENNA)	

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2007. 04	New
1.1	2007. 08	E13 model deletion of HCD-GNZ888D. Error correction of TEST MODE. (SPM-07033)
1.2	2007. 10	Attention sentence EEPROM to exchange DMB16 board is deleted. (SPM-07091)